

\$			VV	000000 000000 00 00 00 00 00 00 00 00 00 00 00 00 00 00		MM MM MMM MM	
\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$	EEEEEEEEE	Ħ	VV	000000	IIIIIIIIII	MM MM	EEEEEEEEE
		\$\$\$\$\$\$\$\$\$ \$					

MODULE setvol

IDENT = 'VO4-000'.
ADDRESSING_MODE (EXTERNAL=GENERAL.

NONEXTERNAL=LONG_RELATIVE)

BEGIN

!*

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FACILITY:

Set Volume Command

ABSTRACT:

This module processes the Set Volume command.

ENVIRONMENT:

Vax native, privileged user mode

AUTHOR:

Gerry Smith

CREATION DATE: 3-Nov-1981

MODIFIED BY:

V03-010 AEW0003 Anne E. Warner 18-Jul-1984
Add a check to see if the device specified is a
Files-11 format disk and if not tell the user.
This check includes the new error message:
set\$_notdisk, device is not a files-11 format disk

Also check to see if qualifiers with 'values' check that the qualifier is present before looking for values. This is because most qualifiers are negatable now. As a result this check was added to /LABEL when it is checked for.

- V03-009 DAS0001 David Solomon 09-Jul-1984 Add support for /REBUILD perform volume rebuild.
- V03-008 AEW0002 Anne E. Warner 24-May-1984 Change RMS access to \$QIOW access so that the home block can be found in ODS1 structure blocks. The problem was that RMS sees the End-of-file as zero on an ODS1 initialized volume and will not look for a valid home block.
- V03-007 LMP0221 L. Mark Pilant, 9-Apr-1984 10:46 Change UCB\$L_OWNUIC to ORB\$L_OWNER and UCB\$W_VPROT to ORB\$W_PROT.
- V03-006 MCN0164 Maria del C. Nasr 03-Apr-1984
 The /DATA_CHECK qualifier must accept NOREAD and NOWRITE.
- V03-005 AEW0001 Anne E. Warner 21-Mar-1984 Add a check to see if volume is mounted foreign. If it is it cannot be modified because it is not in Files-11 format so notify the user and exit.
- V03-004 GAS0132 Gerry Smith 13-May-1983
 Add [NO]HIGHWATER, [NO]UNLOAD, [NO]MOUNT_VERIFICATION,
 [NO]ERASE_ON_DELETE. Also modify VOLSET.SYS on the
 root volume for volume sets if /LABEL specified.
- V03-003 GAS0121 Gerry Smith 14-Apr-1983 For ODS1 disks, fold long UICs into <377,377>.
- V03-002 GAS0112 Gerry Smith 29-Mar-1983 Convert to new CLI interface, and new command dispatcher.
- V03-001 GAS52349 Gerry Smith 4-Jan-1983 Remove one level of indirection from the DEVCHAR field of the UCB when modifying its contents.
- V03-006 GAS0091 Gerry Smith 19-Oct-1982 Change input request for new CLD syntax.
- V03-005 GAS0040 Gerry Smith 2-feb-1982 fix privilege checking to check for write access to the volume's index file. Also, fix write bug that prevented modified home blocks to be written back.
- V03-004 GAS0033 Gerry Smith 12-Jan-1982 fix various bugs.
- V03-003 GAS0030 Gerry Smith 1-Jan-1982 Add /RETENTION, the default retention period for files created on a volume.

SETVOL VO4-000		K 16 16-Sep-1984 01:01:55 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:09:22 [CLIUTL.SRC]SETVOLUME.B32:	1
: 115 : 116 : 117 : 118	0115 1 ! 0116 1 ! 0117 1 ! 0118 1 !	V03-002 GAS0026 Gerry Smith 18-Dec-1981 Use shared message file, and lower fatal messages to simple error messages.	
120 121 122 123	0120 1 0121 1 0122 1 0123 1	V03-001 GAS0025 Gerry Smith 14-Dec-1981 Add /LOG qualifier	

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```
M 16
16-Sep-1984 01:01:55
14-Sep-1984 12:09:22
 SETVOL
V04-000
                                                                                                                                                                                                                                  VAX-11 Bliss-32 V4.0-742
ECLIUTL.SRCJSETVOLUME.B32:1
         0146
0147
0148
0147
0153
0155
0155
0167
0167
0167
0168
0169
0170
                                                              FORWARD ROUTINE
set$volume : NOVALUE.
                                                                                                                                                                         Main routine for volume
Get qualifiers
                                                                       get_quals,
parse_class,
process_volume_set : NOVALUE,
process_one_volume : NOVALUE,
modify_volset : NOVALUE,
set_home,
set_ucbvcb : NOVALUE,
read_homeblock;
                                                                                                                                                                          Parse a protection class
                                                                                                                                                                          Process volume set
                                                                                                                                                                        Process volume set
Process each volume
Fix VOLSET.SYS
Modify the homeblock
Modify the UCB and VCB for the disk
Find and read first good homeblock
                                                              EXTERNAL ROUTINE
                                                                       clispresent,
clisget_value,
libsfile_scan,
check_privilege : NOVALUE,
search_error,
file_error,
checksum2,
                                                                                                                                                                          Get qualifier
                                                                                                                                                                          Get value for qualifier
                                                                                                                                                                         Routine to get next directory
Routine to check for privilege
Where to go if file search fails
Where to go if file error occurs
Compute checksum
                                                                         get_channelucb,
lib$cvt_dtb,
lib$cvt_dtime,
                                                                                                                                                                          Routine to get address of UCB
Convert decimal to number
                                                                                                                                                                          Convert delta time
                                                                         Lib$tparse,
                                                                                                                                                                          Parser
                                                                        parse_uic,
sys$fao;
                                                                                                                                                                          Parse a UIC
                                                                                                                                                                         Formatted ASCII output
                                         0174
0175
0176
0177
                                                                   External data references
                                                              EXTERNAL
                                         0178
0179
                                                                   Data
                                          0180
                                                                        exte_value,
                                                                                                                                                                                              EXTENSION value
                                          0181
                                                                        uic_value,
                                                                                                                                                                                              Owner UIC
                                                                                                                                                                                             UIC group number
UIC member number
                                                                        group.
                                                                         member:
                                         0184
0185
                                                            EXTERNAL LITERAL

clis_ivprot.

clis_absent.

sets_operreq.

sets_badfrmt.

sets_hbread.

sets_hbwrite.

sets_modified.

sets_nohome.

sets_notdisk.

sets_notds2.

sets_readerr.

sets_sysnotupd.

sets_writeerr:
                                                                   Error messages
                                         0188
0189
0190
                                                                                                                                                                     ! Invalid protection value
                                                                                                                                                                        OPER privilege required
Volume doesn't have files-11 format
Error reading homeblock
Error writing homeblock
Volume modified
Volume has no good home block
Device is not a files-11 format disk
Volume not modified
Qualifier invalid for CDS1
Error reading volume
                                          0191
0192
0193
                                          0194
0195
0196
0197
                                          0198
0199
0200
0201
                                                                                                                                                                        Error reading volume
Error updating ucb and vcb
Could not write to file
```

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DATA_CHECK = READ DATA_CHECK = WRITE DATA_CHECK = NOREAD DATA_CHECK = NOWRITE

(noread,), (nowrite,));

SETVOL VO4-000		C 1 16-Sep-1984 01:01:55 VAX-11 BLiss-32 V4.0-742 14-Sep-1984 12:09:22 [CLIUTL.SRC]SETVOLUME.B32;1
258 259 260 261 262 263 264 265 265 266 267 268 269	0255 1 Define storage for this 0257 1 Define storage for this 0257 1 Define storage for this 0258 1 GLOBAL 0259 1 Occupation occupat	! PROTECTION value

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```
GLOBAL ROUTINE set$volume : NOVALUE =
298
299
300
301
302
303
304
307
308
310
311
                             functional description
                                     This is the main control module for SET VOLUME. It obtains the qualifiers and, for each volume specification, calls the routine that actually modifies the volume's home block.
                             Calling sequence
                                     CALL set$volume()
                              Input parameters
none
                             Output parameters
                                     none
                              Implicit outputs
                                     none
                             Routine value
                                     none
                             Side effects
                                     none
                           BEGIN
                           LOCAL
                                dyn_desc : $BBLO(K[dsc$c_s_bln];
                             Check that the image is running with appropriate privilege.
                           check_privilege();
                             Get the command qualifiers.
                           IF NOT get quals()
THEN RETURN;
                             for each volume specified, perform the operations requested.
                           $init_dyndesc(dyn_desc);
WHILE cli$get_value(%ASCID 'VOLUME', dyn_desc)
                                                                                                      Make desc. dynamic
                                                                                                    ! For each volume specified,
                           DO
                                BEGIN
                                     status.
                                     max_rvn : volatile,
                                                                                                    ! Total volumes in set
                                                                                                   ! Original rvn (this disk)
                                     original_rvn : volatile,
```

(set\$_notmod, 1, nodisk_desc, set\$_notdisk);
RETURN false;

It is a files-11 device so check if mounted foreign

Page

(6)

```
6 1
16-Sep-1984 01:01:55
14-Sep-1984 12:09:22
SETVOL
                                                                                                                                         VAX-11 Bliss-32 V4.0-742
ECLIUTL.SRCJSETVOLUME.B32;1
                                                                                                                                                                                                 Page 11 (6)
                                                  If .devchar[dev$v_for]
THEN
                        0407
0408
0419
0411
0413
0413
0413
0413
0413
0423
0423
0423
0423
0423
0423
0423
                                                 BEGIN
    416
                                                     foreign_desc : $88LOCK[dsc$c_s_bln];
                                                                                                                            ! descriptor for volume name
                                                    $INIT_DYNDESC (foreign_desc);
foreign_desc[dsc$w_length] = .root_desc[0];
foreign_desc[dsc$a_pointer] = .root_desc[1];
                                                                                                                               length of volume name
    420
423
423
425
426
427
428
433
433
435
                                                                                                                               volume name
                                                     SIGNAL
                                                                                                                               inform user of error
                                                     (set$ notmod, 1, foreign_desc, set$_badfrmt);
RETURN false;
                                                  END:
                                          If everything is alright process the volume set.
                                                 process_volume_set(root_desc_original_rvn,
                                                                                 .max_rvn);
                                              END:
                                           END:
                                    RETURN;
END;
                                                                                                                   .TITLE
                                                                                                                               SETVOL
\V04-000\
                                                                                                                   .PSECT
                                                                                                                               SPLITS, NOWRT, NOEXE, 2
                                                                                             00000 P.AAA:
                                                                          2C
                                                                                                                               \[0,0]INDEXF.SYS\
                                                                                                                   .ASCII
                                                                                                                   .BLKB
                                                                             4F 56
010E0006
00000000
                                                                                             00010 P.AAC:
                                                                                                                               \VOLUME\<0><0>
17694726
                                                                                                                   .ASCII
                                                                                             00018
0001C
                                                                                                                   . LONG
                                                                                                      P.AAB:
                                                                                                                    ADDRESS P.AAC
                                                                                                                   .PSECT SOWN$, NOEXE, 2
                                                                                             00000 FLAGS: .BLKB
                                                                                             00008 USER_LABEL:
                                                                                                                               12
                                                                                                                    BLKB
                                                                                             00014 LABEL_BUFF:
                                                                                                                               12
512
                                                                                                                    .BLKB
                                                                                                     BUFFER: .BLKB
ACC_INC:.BLKB
                                                                                             00221
00222
00224
00228
                                                                                                      ODST:
                                                                                                                    BLKB
                                                                                                      CHANNEL: . BLKB
                                                                                                      RESULT_FILE:
                                                                                                                   BLKB
BLKB
BYTE
BYTE
BYTE
                                                                                                                               255
                                                                                             00327
00328
00329
0032A
0032B
                                                                                       02
60
FF
00
                                                                                                                               0
```

	H 1 16-Sep-1984 01:01:55 14-Sep-1984 12:09:22	VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETVOLUME.B32;1	Page 12 (6)
00000000000000000000000000000000000000	16-Sep-1984 01:01:55 14-Sep-1984 12:09:22 0032C	T_FILE	Page (6)
00 00 00 00 00 00 00 00 00	00388 .ADDRESS P.AAA 003BC .BYTE 0 003BD .BYTE 15 003BE .WORD 0 003C0 .LONG 0 003C4 .WORD 0 003C6 .BYTE 0		
00000000 00000000 0000	003C7		

SET	-000
V04	-000

		00		-Sep-1984 -Sep-1984			VAX-11 Bliss-32 V4.0-742 CCLIUTL.SRCJSETVOLUME.B32;1	Page	(6
	00	000000	003D3 003D4		BYTE	8			
				•	PSECT	\$GLOE	BALS, NOEXE, 2		
			00004 00008	FPROT_VAL	UE:: BLKB UE::	4 8			
			00014	RETMIN_VA	LUE::	8			
			00024	USER_VALU	BLKB BLKB	8 8 4			
					EXTRN EXTRN EXTRN EXTRN EXTRN EXTRN EXTRN EXTRN EXTRN EXTRN EXTRN EXTRN EXTRN EXTRN EXTRN EXTRN	LIBSI SEAR(CHEC) LIBSI SYSSI UIC N MEMBE CLIS SETS SETS	PRESENT, CLISGET_VALUE FILE SCAN, CHECK_PRIVILEGE CHERROR, FILE ERROR (SUM2, GET_CHARNELUCB CVT_DTB, LIBSCVT_DTIME TPARSE, PARSE_UIC FAO, EXTE_VALUE (ALUE, GROUP FR, CLIS_IVPROT ABSENT, SETS_OPERREQ BADFRMT, SETS_HBREAD HBWRITE, SETS_MODIFIED NOHOME, SETS_NOTDISK NOTMOD, SETS_NOTODS2 READERR, SETS_SYSNOTUPD WRITEERR, SYSSGETDVIW		
		0004	00000		PSECT		S,NOWRT,2 OLUME, Save R2	: (029
00000000 00000000	52 000000006 5E FEBO 00 EF 1B AD 020E0000	00 9E CE 9E 00 FB	00002 00009 0000E 00015		OVAB OVAB ALLS	LIB\$	OLUME, Save R2 SIGNAL, R2 (SP), SP CHECK PRIVILEGE SET_QUALS (SE) (SE) (SE) (SE) (SE) (SE) (SE) (SE		033
F8	AD 020E0000 FC F8 00000000	00 9E 00 FB 00 FB 50 E9 8F D0 AD 9F EF 9F 02 FB 04 AE 9E 8F CD 9E	0001C 0001F 00027 0002A	18:	OLBC NOVL LRL PUSHAB PUSHAB	DYN	1936, DYN_DESC ESC+4 ESC	:	034 034
00000006	00	02 FB	0002b 00033 0003A	28:	LBS	#2. RO.	LISGET_VALUE		
	50 80 00320080 80 FF68	AE 9E 8F 00 CD 9E	0003D 0003E 00042 00049		RET NOVAB NOVAB	#3276	IST, \$\$ITMBLKPTR 928, (\$\$ITMBLKPTR)+ BUFFER, (\$\$ITMBLKPTR)+		037

,	SE	1	V	DL	
	VÕ	4	-	ĎÔ	0

						1	6-Sep-198	4 01:01	1:55	VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETVOLUME.B32;1	Page 14 (6)
		80 80	002E0004 F0	AD 8F AD	9E 00 9E	0004E 00052 00059 0005E		MOVAB MOVAB	#301 ORIG	DESC, (\$\$ITMBLKPTR)+ 4660, (\$\$ITMBLKPTR)+ INAL_RVN, (\$\$ITMBLKPTR)+	
		80 80	00300004 f4	8F AD	04 9E	00050 0005F 00066		MOVAB CLRL MOVL MOVAB CLRL MOVAB CLRQ MOVAB CLRQ CLRQ CLRL PUSHAB	#314 MAX	4000, (\$\$ITMBLKPTR)+ INAL RVN, (\$\$ITMBLKPTR)+ 5732, (\$\$ITMBLKPTR)+ RVN, (\$\$ITMBLKPTR)+ TMBLKPTR)+ 076, (\$\$ITMBLKPTR)+ HAR, (\$\$ITMBLKPTR)+ TMBLKPTR)+ BUFFER, ROOT_DESC+4	
		80 80	00020004 3C	8F AE	9E	00066 00066 00066 00077		MOVL	#131 DEVC	TMBLKPTR)+ 076, (\$\$ITMBLKPTR)+ HAR, (\$\$ITMBLKPTR)+	
	EC	AD	FF68	CD 7E 7E	9E 7C	00079 0007F		MOVAB CLRQ	R001 -(SP -(SP	BUFFER, ROOT_DESC+4	0373 0377
			FF60 18 F8	AE AD	9F 9F	00083 00087 0008		PUSHAB PUSHAB PUSHAB	TOSE	,	
	000000006	00 08 50 07	FF60	A8 A8 B A8 C 77 C A A 7 0 5 C 5 5	90900900979709997FE3EDF	00079 00075 00081 00087 00087 00086 00096 00096 00096		PUSHAB PUSHAB CLRQ CALLS BLBC MOVZWL BLBS PUSHL	STAT TOSE STAT	SYSSGETDVIU US, 4\$, STATUS US, 6\$	0378 0379 0380 0381
		62		01 82	FB 11	000A3	48: 58:	CALLS	18	LIB\$SIGNAL	; 0381
18	3F	AE 6E	020E0000 04		E0 00	000AE 000AD 000B4 000B7	68:	BRB BBS MOVL (LRL MOVW	#4 #344	DEVCHAR+3, 7\$ 71936, NODISK_DESC	0391 0397
	04	6E AE	00000000G	04 8F AE AD AD 8F 1D	E0 00 04 B0 00 00	000BF 000BF 000C6		MOVU MOVL PUSHL	R001 R001 #SE1	DEVCHAR+3, 7\$ 71936, NODISK_DESC SK_DESC+4 _DESC, NODISK_DESC _DESC+4, NODISK_DESC+4 \$_NOTDISK	0398 0399 0401
		28 6E	020E0000	AE AE AD AD	E9 00 04	000C8 000C0 000D3	75:	MOVL PUSHL BRB BLBC MOVL CLRL MOVW	DEVO #344	HAR+3, 9\$ 71936, FOREIGN_DESC	0407 0413
	04	AE AE	00000000G 04	AD AD BF AE 01	B0 D0 DD	000D6 000D7 000DF	85:	PUSHL PUSHAB	TURE	HAR+3. 9\$ 71936, FOREIGN_DESC IGN_DESC+4 _DESC, FOREIGN_DESC _DESC+4, FOREIGN_DESC+4 \$ BADFRMT IGN_DESC	0414 0415 0417
		62	00000000G	01 8F 04	DD DD FB 04	000E8 000E 000F0 000F3		PUSHL PUSHL CALLS RET	#SET	\$_NOTMOD LIB\$SIGNAL	0418
			F4 F0 E8	AD AD O3	DD DD 9f	000F4 000F7 000F	98:	PUSHL PUSHL PUSHAB	ROOT	INAL RVN DESC	0425 0424 0423
	00000000V	EF		A0	FB 11 04	000FD 00104 00106		CALLS BRB RET	58	PROCESS_VOLUME_SET	0343 0430

; Routine Size: 263 bytes. Routine Base: \$CODE\$ + 0000

```
VAX-11 Bliss-32 V4.0-742
[CLIUTL.SRC]SETVOLUME.B32;1
ROUTINE get_quals =
  This routine interrogates the CLI to get all the qualifiers and
  values.
BEGIN
BUILTIN
    addm.
    cmpm;
LOCAL
    status,
desc : $88LOCK[dsc$c_s_bln];
Sinit_dyndesc(desc);
                                                    ! Make the desc. dynamic
 /ACCESSED
If clispresent(%ASCID 'ACCESSED')
    LOCAL privs : $BBLOCK[8]; flags[qual_access] = 1;
                                           ! Place to store the process privileges
  Call $SETPRV to get the current privileges of the process. If the process
  does not have OPER, then signal an error and stop.
    Enable
                                                              No new privileges
                                                              Get current privileges
                               PRVPRV = privs))
    THEN
        BEGIN
        SIGNAL(.status);
RETURN false;
        END:
    IF NOT .privs[prv$v_oper]
        BEGIN
        SIGNAL (set$ operreq);
RETURN false;
         END:
  The process has the correct privilege, so go ahead and get the value
    acc_value = 3:
                                           ! Set up the default
  If a value was specified, use it; otherwise, use the default.
```

If clisget_value(%ASCID 'ACCESSED', desc)

```
VAX-11 Bliss-32 V4.0-742
CCLIUTL.SRCJSETVOLUME.B32:1
   THEN
BEGIN
IF NOT LIBSCYT_DTB(.desc[dsc$w_length],
.desc[dsc$a_pointer],
                                                        acc_value)
                                    THEN
                                       BEGIN
SIGNAL(set$_syntax, 1, desc);
RETURN false;
                                        END;
                                      .acc_value LSS 0
                                                                               ! Check that value is in range
                                    THEN
                                        SIGNAL(set$_syntax, 1, desc, set$_valerr);
                                        RETURN false;
                                        END:
                                   END:
                               END:
                             /DATA_CHECK
                          if clispresent(%ASCID 'DATA_CHECK')
THEN
                               flags[qual_data] = 1;
IF NOT clisget_value(%ASCID 'DATA_CHECK', desc)
                               THEN
                                   dflags[data_write] = 1
                               ELSE
                                   WHILE clisget_value(%ASCID 'DATA_CHECK', desc) DO
                                   BEGIN
                                  ELSE
                                        BEGIN
                                        SIGNAL(set$_syntax, 1, desc);
RETURN false;
                                        END:
                                   END:
                               END:
                             /[NO]ERASE_ON_DELETE
                           status = cli%present(%ASCID 'ERASE_ON_DELETE');
```

VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETVOLUME.B32;1

```
IF .status NEQ clis_absent THEN
BEGIN
                                    flags[qual_erase] = 1;
flags[qual_erase_val] = .status;
                                 /EXTENSION
                              IF clispresent(%ASCID 'EXTENSION')
                              THEN
                                    BEGIN
                                    flags[qual_exte] = 1;
exte_value = 5;
If clisget_value(%ASCID 'EXTENSION', desc)
                                    THEN
                                          IF NOT lib$cvt_dtb(.desc[dsc$w_length],
                                                                      .desc[dsc$a_pointer],
                                                                     exte_value)
                                          THEN
                                               SIGNAL(set$_syntax, 1, desc);
RETURN false;
                                         END;

IF .exte_value LSS 0

OR .exte_value GTR 65535
                                          THEN
                                               BEGIN
SIGNAL(set$_syntax, 1, desc, set$_valerr);
                                               END:
                                          END:
                                    END:
                                 /FILE_PROTECTION
                  0584
0585
0586
0587
0588
0589
0591
0593
0593
0594
0596
0597
0598
0599
                              IF clispresent(%ASCID 'FILE_PROTECTION')
THEN
                                    BEGIN
BIND
                                          setpro_mask = fprot_value + 2 : WORD,
                                          setpro_prot = fprot_value : WORD;
                                    flags[qual_fprot] = 1;
fprot_value = 0;
                                    IF clispresent(%ASCID 'FILE_PROTECTION.SYSTEM')
                                    THEN
                                          BEGIN
                                          setpro_mask = .setpro_mask OR %X'000f';
If clisget_value(%ASCID 'fILE_PROTECTION.SYSTEM',desc)
THEN setpro_prot = parse_class(desc);
                   0601
                                    IF clispresent (%ASCID 'FILE_PROTECTION.OWNER')
```

```
VAX-11 Bliss-32 V4.0-742
ECLIUTL.SRCJSETVOLUME.B32:1
                         THEN
    BEGIN
                                                    setpro_mask = .setpro_mask OR %x'00F0';
If clisget_value(%ASCID 'FILE_PROTECTION.OWNER',desc)
THEN setpro_prot = .setpro_prot OR parse_class(desc)^4;
If clispresent(%ASCID 'FILE_PROTECTION.GROUP')
THEN
                                                    BEGIN
                                                    setpro_mask = .setpro_mask OR %X'OFOO';
If clisget_value(%ASCID 'FILE PROTECTION.GROUP',desc)
THEN setpro_prot = .setpro_prot OR parse_class(desc)^8;
                                             IF clispresent(%ASCID 'FILE_PROTECTION.WORLD')
                                             THEN
                                                    BEGIN
                                                   setpro_mask = .setpro_mask OR %%'F000';
IF cliSget_value(%ASCID 'FILE PROTECTION.WORLD',desc)
THEN setpro_prot = .setpro_prot OR parse_class(desc)^12;
                                                    END:
                                             END:
                                          /[NO]HIGHWATER_MARKING
                                       status = clispresent(%ASCID 'HIGHWATER_MARKING');
                                       IF .status NEQ clis_absent
                                       THEN
                                             BEGIN
                                             flags[qual_fhw] = 1;
flags[qual_fhw_val] = NOT .status;
                                             END:
    /LABEL
                                       If clispresent(%ASCID 'LABEL')
                                       THEN
                                              If cli$get_value(%ASCID 'LABEL', desc)
                                             THEN
                                             BEGIN
                                             flags[qual_label] = 1;
If .desc[dsc$w_length] GTR vcb$s_volname
                                              THEN
                                                   BEGIN
SIGNAL(set$_syntax, 1, desc);
RETURN false;
                                                    END:
                                             label_value[0] = .desc[dsc$w_length];
label_value[1] = .desc[dsc$a_pointer];
$init_dyndesc(desc);
                                             END:
    660
661
662
663
                                          /L06
    664
                                       flags[qual_log] = cli%present(%ASCID 'LOG');
```

```
SETVOL
VO4-000
                    /[NO]MOUNT_VERIFICATION
                             status = clispresent(%ASCID 'MOUNT_VERIFICATION');
IF .status NEQ clis_absent
THEN
                                   BEGIN
                                   flags[qual_mntver] = 1;
flags[qual_mntver_val] = .status;
                                /OWNER_UIC
                              iF clispresent(%ASCID 'OWNER_UIC')
THEN
                                   BEGIN
flags[qual_owner] = 1;
IF NOT cli$get_value($ASCID 'OWNER_UIC', desc)
                                   THEN
                                        BEGIN
                                        LOCAL
                                        iosb : VECTOR[4, WORD];
status = $GETJPIW(ITMLST = UPLIT(WORD(4, jpi$_uic),
                                                                                  uic_value,
                                                                10SB = iosb);
                                           .status
                                        THEN status = .iosb[0];
                                        IF NOT .status
                                        THEN
                                             BEGIN
                                             SIGNAL (.status);
RETURN false;
                                             END:
                                        END
                                   ELSE parse_uic(desc, uic_value);
                                 /PROTECTION
                              If cli$present(%ASCID 'PROTECTION')
                              THEN
                                   BEGIN
                                        setpro_mask = vprot_value + 2 : WORD,
                                        setpro_prot = vprot_value : WORD;
                                   flags[qual_vprot] = 1;
vprot_value = 0;
                                   If cli%present(%ASCID 'PROTECTION.SYSTEM')
                                   THEN
                                        BEGIN
```

THEN

END:

0761

0764

0765

THEN

BEGIN

BEGIN

BEGIN

END:

SETVOL VO4-000

```
status = cli$present(%ASCID 'REBUILD');
IF .status NEQ cli$_absent
THEN______
```

flags[qual_rebuild] = 1; flags[qual_rebuild_val] = .status;

/RETENTION

```
if cli$present(%ASCID 'RETENTION')
THEN
```

LOCAL temp_desc : VECTOR[2]:

flags[qual_retent] = 1; CH\$fILL(0, 8, retmin_value);
CH\$fILL(0, 8, retmax_value);

Zero minimum value ! Zero maximum value

If a minimum value was not supplied, signal an error

setpro_mask = .setpro_mask OR %x'f000';
If cliSget_value(%ASCID 'PROTECTION.WORLD'.desc)
THEN setpro_prot = .setpro_prot OR parse_class(desc)^12;

IF NOT cli\$get_value(%ASCID 'RETENTION', desc) THEN

BEGIN

```
VAX-11 Bliss-32 V4.0-742
ECLIUTL.SRCJSETVOLUME.B32;1
779
780
781
782
783
784
785
786
787
791
793
794
798
800
                     0773
0774
0775
0776
0777
0778
0779
0780
0781
0782
0783
                                               SIGNAL(set$_syntax, 1, desc);
                                               RETURN false:
                                              END:
                                     Convert the minimum retention value to 64-bit system delta time format
                                        If NOT (status = LIB$CVT_DTIME(desc, temp_desc))
                                        THEN
                                              BEGIN
SIGNAL(set$_syntax, 1, retmin_value);
                     0784
0785
0786
0787
0788
0789
0790
0791
0792
0793
0794
0795
0796
0797
                                        ELSE CH$MOVE(8, temp_desc, retmin_value);
                                                                                                              ! If no error, put 64-bit
                                                                                                                     ! delta time in place
                                     If a maximum value was supplied, then convert it in the same way.
                                        If cli$get_value(%ASCID 'RETENTION', desc)
THEN
                                              BEGIN
IF NOT (status = LIB$CVT_DTIME(desc, temp_desc))
THEN
                                                     SIGNAL(set$_syntax, 1, retmax_value);
                                                     RETURN false:
                     0800
0801
0802
0803
0804
                                              ELSE CH$MOVE(8, temp_desc, retmax_value);
END
                    0805
0806
0807
0808
0809
0810
0811
0812
0813
0816
0816
0817
0818
0821
0823
0824
0825
0826
0827
                                     If no maximum value was supplied, then use the lesser of:
                                              twice the minimum value or
                                              the minimum value plus one week
                                        ELSE
                                              BEGIN
                                                     double : VECTOR[2]
                                                                                                                             Place for 2*RETMIN
                                                    week_plus : VECTOR[2],
one_week : VECTOR[2]
INITIAL(%x'D71BC000',
%x'FFFFFA7F');
                                                                                                                           ! Place for RETMIN + 7
                                                                                                                           ! Binary for 7 days
                                              ADDM(2, retmin_value, retmin_value, double);
ADDM(2, one_week, retmin_value, week_plus);
IF CMPM(2, double, week_plus) GTR 0
THEN CH$MOVE(8, double, retmax_value)
ELSE CH$MOVE(8, week_plus, retmax_value);
                                                                                                                              Get 2*RETMIN
and RETMIN+7
                                                                                                                             compare ...
                                              END:
                                        END:
                                     /[NO]UNLOAD
                                  status = clispresent(%ASCID 'UNLOAD');
```

```
IF .status NEQ clis_absent THEN
               BEGIN
                              flags[qual_unl] = 1;
flags[qual_unl_val] = .status;
                           /USER_NAME
                        if clispresent(%ASCID 'USER_NAME')
THEN
                             BEGIN
                              flags[qual_username] = 1;
If NOT cliSget_value(%ASCID 'USER_NAME', desc)
                              THEN
                                  BEGIN
                                  LOCAL
                                  .status
                                   THEN status = .iosb[0];
                                  IF NOT .status
                                  THEN
                                       BEGIN
                                       SIGNAL (.status):
                                       RETURN false;
                                  user_value[1] = user_tabet;
                             ELSE
                                  BEGIN
                                  If .desc[dsc$w_length] GTR hm2$s_ownername
                                  THEN
                                       BEGIN
                                       SIGNAL(set$_syntax, 1, desc);
RETURN false;
                                       END:
                                  user_value[0] = .desc[dsc$w_length];
user_value[1] = .desc[dsc$a_pointer];
$init_dyndesc(desc);
                                  END:
                             END:
                           /WINDOWS
                         if clispresent(%ASCID 'WINDOWS')
THEN
                              BEGIN
```

```
SETVOL
VO4-000
                                                                                    16-Sep-1984 01:01:55
14-Sep-1984 12:09:22
                                                                                                                    VAX-11 Bliss-32 V4.0-742
ECLIUTL.SRCJSETVOLUME.832:1
                     0887
0888
0889
0890
                                    flags[qual_windows] = 1;
window_value = 7;
IF clisget_value(%ASCID 'WINDOWS', desc)
   894
895
896
897
898
899
901
902
903
904
905
906
907
911
912
913
                                     THEN
                     0891
                                          BEGIN
                     0892
0893
0894
0895
                                          THEN
                                               BEGIN
                     0897
0898
0899
0900
0901
0902
0903
                                               SIGNAL (set$_syntax, 1, desc);
                                               RETURN false:
                                               END:
                                              .window_value LSS 7
                                              .window_value GTR 80
                                          THEN
                                               BEGIN
                     0904
                                               SIGNAL(set$_syntax, 1, desc, set$_valerr);
                     0905
0906
                                               RETURN false;
                                               END:
                     0907
                                          END:
   914
915
                     0908
                                     END:
                     0909
   916
917
                     0910
                                RETURN true;
                               END:
                                                                                                  .PSECT $PLIT$, NOURT, NOEXE, 2
                                                                              00020 P.AAE:
00028 P.AAD:
0002C
                                                                                                           \ACCESSED\
17694728
                                              53 53
                                                         45 43 43 41
                                                                                                  .ASCII
                                                                  010E0008
                                                                                                 .LONG
                                                                                                  ADDRESS P.AAE
                                                                  00000000
                                                                                                           \ACCESSED\
17694728
                                                               43
                                                                               00030
                                                                                      P.AAG:
                                               53
                                                    53
                                                          45
                                                                                                  .ASCII
                                                                              00038 P.AAF:
                                                                  010E0008
                                                                                                 .LONG
                                                                  00000000
                                                                                                  ADDRESS P.AAG
                                                                               00040
                                                                                      P.AAI:
                                                                                                  .ASCII
                                                                                                           \DATA_CHECK\<0><0>
17694730
                                          48
                                               43
                                                    5F
                                                                  010E000A
                                                                               0004C P.AAH:
                                                                                                 . LONG
                                                                               00050
                                                                  00000000
                                                                                                  ADDRESS P. AAI
                                                                                                           \DATA_CHECK\<0><0>
17694730
                                                                                      P.AAK:
                                                    SF
                                                                               00054
                                                                                                  .ASCII
                                                                               00060 P.AAJ:
                                                                  010E000A
                                                                                                  .LONG
                                                                               00064
                                                                  00000000
                                                                                                  ADDRESS P. AAK
                                                                               00068
                                                                                                           \DATA_CHECK\<0><0>
17694730
                00
                                          48
                                               43
                                                    SF
                                                                                       P. AAM:
                                                                                                  _ASCII
                                                                               00074 P.AAL:
                                                                  010E000A
                                                                                                  .LONG
                                                                  00000000
                                                                                                  .ADDRESS P. AAM
                                                                               0007
                                                                                       P. AAN:
                                                                                                           \WRITE\
                                                                                                  -ASCII
                                                                               8000
                                                                                                  .BLKB
                                                                               00084
                                                                                      P.AAO:
                                                                                                            \READ\
                                                                                                  .ASCII
                                                                                      P.AAP:
                                                                                                            \NOWRITE\
                                                                                                  .ASCII
                                                                               0008F
00090
00096
00098
000A7
000A8
                                                                                                  BLKB
                                                          45
                                                               52
                                                                                       P.AAQ:
                                                                                                  .ASCII
                                                                                                            \NOREAD\
                                                                    4F
                                                                                                  .BLKB
                                                                    52
                                                                                       P.AAS:
                                                                                                  .ASCII
                                                                                                            \ERASE_ON_DELETE\<0>
                                               5F
                                                                  010E000F
                                                                                                  .LONG
                                                                                                           17694735
                                                                                      P.AAR:
                                                                                                  .ADDRESS P.AAS
                                                          45
                                                               54
                                                                               000B0
                                                                                                           \EXTENSION\<0><0><0>
                                               53
                                                    4E
                                                                                                  .ASCII
```

SET VO4	-000 VOL											16-Sep-1984 01:01:55 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:09:22 [CLIUTL.SRC]SETVOLUME.B32;1
												010E0009 000BC P.AAT: .LONG 17694729 00000000 000CO .ADDRESS P.AAU 14 58 45 000C4 P.AAW: .ASCII \EXTENSION\<0><0><0>
			00	00	00	4E	4F	49	53	4E	45	010E0009 000D0 P.AAV: .LONG 1/694/29
E	4F	49	54	43	45	54	4F	52	50	SF.	45	00000000° 000D4 .ADDRESS P.AAW C 49 46 000D8 P.AAY: .ASCII \FILE_PROTECTION\<0>
												010E000F 000E8 P.AAX: .LONG 17694735
E	46	49	54	43	45	54	4F 00	52 40	50 45	5F 54	45 53	00000000 000EC .ADDRESS P.AAY C 49 46 000F0 P.ABA: .ASCII \FILE_PROTECTION.SYSTEM\<0><0>
						00	00	40	73	34	13	010E0016 00108 P.AAZ: .LONG 17694742
E	45	49	54	43	45	54	46	52	50	SE	45	
-	~,	~ ~		43	40	00	4F	52 40	45	54	53	9 53 2E 0011F
												010E0016 00128 P.ABB: .LONG 17694742 00000000 0012C .ADDRESS P.ABC
E	4F	49	54	43	45	54	4F	52	50 52	5F 45	45 4E	00000000° 0012C .ADDRESS P.ABC C 49 46 00130 P.ABE: .ASCII \FILE_PROTECTION.OWNER\<0><0><0>
						VV	VV	VV	76	72	46	010E0015 00148 P.ABD: .LONG 17694741
E	4.6	49	54	43	45	54	48	52	50	22	45	00000000° 0014C .ADDRESS P.ABE
E	41	47	24	43	45	54	4F	52	50	5F	45 4E	07 4F 2E 0015F
												010E0015 00168 P.ABF: .LONG 17694741
E	4F	49	54	43	45	54	4F	52	50	5F 55	45 4F	C 49 46 00170 P.ABI: .ASCII \FILE_PROTECTION.GROUP\<0><0>
						00	4F	00	50	55	4F	52 47 2E 0017F
												010E0015 00188 P.ABH: .LONG 17694741 00000000 0018C .ADDRESS P.ABI
E	4F	49	54	43	45	54	4F	52	50 50	5F 55	45 4F	C 49 46 00190 P.ABK: .ASCII \FILE_PROTECTION.GROUP\<0><0><0>
						00	VV	00	20	22	41	010ED015 001A8 P.ABJ: .LONG 17694741
	4.8	10	81	12	18	81	18	62	50	88	18	00000000 001AC .ADDRESS P.ABK
E	41	49	54	43	45	54	00	52	50	40	52	C 49 46 001B0 P.ABM: .ASCII \FILE_PROTECTION.WORLD\<0><0><0>
												010E0015 001C8 P.ABL: .LONG 17694741
E	46	49	54	43	45	54	4F	52	50	5F	45	00000000 001CC .ADDRESS P.ABM C 49 46 001DO P.ABO: .ASCII \FILE_PROTECTION.WORLD\<0><0><0>
						00	00	90	50	SF 4C	45 52	SF 57 2F 001DF
												010E0015 001E8 P.ABN: .LONG 17694741 00000000 001EC .ADDRESS P.ABO 7 49 48 001F0 P.ABQ: .ASCII \HIGHWATER_MARKING\<0><0><0>
9	48	52	41	40	5F	52	45	54	41	57	48	7 49 48 001F0 P.ABQ: .ASCII \HIGHWATER_MARKING\<0><0><0>
										00	00	00 47 4E 001FF 010E0011 00204 P.ABP: .LONG 17694737
												00000000 00208 .ADDRESS P.ABQ
							00	00	00	40	45	010E0005 00214 P.ABR: .LONG 17694725
												00000000° 00218 .ADDRESS P.ABS
							00	00	00	40	45	2 41 4C 0021C P.ABU: .ASCII \LABEL\<0><0>
												010E0005 00224 P.ABT: .LONG 17694725 00000000 00228 .ADDRESS P.ABU
											00	7 4F 4C 0022C P.ABW: .ASCII \LOG\<0>
												010E0003 00230 P.ABV: .LONG 17694723 00000000 00234 .ADDRESS P.ABW
54	41	43	49	46	49	52	45	56	5F	54	4E 00	55 4F 4D 00238 P.ABY: .ASCII \MOUNT_VERIFICATION\<0><0>
										00	00	6E 4F 49 00247 010E0012 0024C P.ABX: .LONG 17694738

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SET VO4	VOL -000												16-Sep-1984 01:01:55 VAX-11 BLiss-32 V4.0-742 14-Sep-1984 12:09:22 [CLIUTL.SRC]SETVOLUME.B32;1	Page 25
			00	00	00	43	49	55	5F	52	45	4E 57 4F 010E0009	00250 .ADDRESS P.ABY 00254 P.ACA: .ASCII \OWNER UIC\<0><0><0> 00260 P.ABZ: .LONG 17694729	
			00	00	00	43	49	55	5F	52	45	4E 57 4F 010E0009	00264 .ADDRESS P.ACA 00268 P.ACC: .ASCII \OWNER UIC\<0><0><0> 00274 P.ACB: .LONG 17694729	
												0304 0004 00000000G	00278 .ADDRESS P.ACC 0027C P.ACD: .WORD 4, 772 00280 .ADDRESS UIC_VALUE	
			00	00	4E	45	49	54	43	45	0000 54	4F 52 50 010E000A 00000000	00284 .LONG 0.0 0028C P.ACF: .ASCII \PROTECTION\<0><0> 00298 P.ACE: .LONG 17694730	•
54	53	59	53	2E	4E	4F	49	54	43	45 00	54 00	4F 52 50	0029C .ADDRESS P.ACF 002A0 P.ACH: .ASCII \PROTECTION.SYSTEM\<0><0><0> 002AF 002AF P.ACG: LONG 17694737	
54	53	59	53	SE	4E	4F	49	54	43	45	54 00	010E0011 000000000 4F 52 50 00 4D 45	00284 P.ACG: .LONG 17694737 00288 .ADDRESS P.ACH 002BC P.ACJ: .ASCII \PROTECTION.SYSTEM\<0><0><0> 002CB	
45	4E	57	4F	2E	4E	4F	49	54	43	45	54	010E0011 00000000 4F 52 50	00200 P.ACI: .LONG 17694737 00204 .ADDRESS P.ACJ 00208 P.ACL: .ASCII \PROTECTION.OWNER\	
			•									010E0010 000000000 4F 52 50	002E7 002E8 P.ACK: .LONG 17694736 002EC .ADDRESS P.ACL	
45	4E	57	4F	2E	4E	4F	49	54	43	45	54	52	002F0 P.ACN: .ASCII \PROTECTION.OWNER\ 002FF 00300 P.ACM: .LONG 17694736	
55	4F	52	47	SE	4E	4F	49	54	43	45	54	4F 52 50	O0304 .ADDRESS P.ACN O0308 P.ACP: .ASCII \PROTECTION.GROUP\ 00317	
55	4F	52	47	2E	4E	4F	49	54	43	45	54	00000000	00318 P.ACO: .LONG 17694736 0031C .ADDRESS P.ACP 00320 P.ACR: .ASCII \PROTECTION.GROUP\	
4C	52	4F	57	2E	4E	4F	49	54	43	45	54	010E0010 00000000 4F 52 50	0032F 00330 P.ACQ: .LONG 17694736 00334 .ADDRESS P.ACR 00338 P.ACT: .ASCII \PROTECTION.WORLD\	
												010E0010 00000000	00347 00348 P.ACS: .LONG 17694736 0034C .ADDRESS P.ACT	•
6C	52	4F	57	SE.	4E	46	49	54	43	45	54	010E0010 00000000	00350 P.ACV: .ASCII \PROTECTION.WORLD\ 0035F 00360 P.ACU: .LONG 17694736	•
							00	44	40	49	55	42 45 52 010E0007	00364 .ADDRESS P.ACV 00368 P.ACX: .ASCII \REBUILD\<0> 00370 P.ACW: .LONG 17694727	•
			00	00	00	4E	4F	49	54	4E	45	54 45 52 010E0009 00000000	00374 .ADDRESS P.ACX 00378 P.ACZ: .ASCII \RETENTION\<0><0><0> 00384 P.ACY: .LONG 17694729 00388 .ADDRESS P.ACZ	
			00	00	00	4E	4F	49	54	4E	45	54 45 52 010E0009 00000000	0038C P.ADB: ASCII \RETENTION\<0><0><0> 00398 P.ADA: LONG 17694729 0039C .ADDRESS P.ADB	
			00	00	00	4E	4F	49	54	4E	45	010E0009 00000000	003A0 P.ADD: .ASCII \RETENTION\<0><0> 003AC P.ADC: .LONG 17694729 003B0 .ADDRESS P.ADD	•

SETVOL V04-000													1 2 6-Sep-1984 4-Sep-1984	01:01	:55 VAX-11 Bliss-32 V4.0-742 :22 [CLIUTL.SRC]SETVOLUME.B32;1	Page (26
					00	00	44	41	4F	4C 01	4E 55	003B	P.ADF:	ASCII	\UNLOAD\<0><0> 17694726	•	
	00	00	00	45	40	41	4E	5.5	52	45	0000000 000000000000000000000000000000	00304	P.ADH:	LONG	S P.ADF \USER NAME\<0><0> 17694729		
	00	00	00	45	4D	41	4E	5F	52	45	55 55	0030	P.ADJ:	ADDRESS ASCII LONG	S P.ADH \USER NAME\<0><0><0> 17694729		
					00	53	57	4F	44	4E 01	0E0009 49 57	003E 003E 003F	P.ADL:	ADDRESS	S P.ADJ \WINDOWS\<0> 17694727 S P.ADL		
					00	53	57	4F	44	4E 01 00	060000 49 57 060000	003F4 003F4 003F6 00404	. P.ADN:	ASCII	S P.ADL \WINDOWS\<0> 17694727 S P.ADN		
													SETPRO MA SETPRO MA SETPRO PA	ASK=	FPROT_VALUE+2 FPROT_VALUE VPROT_VALUE+2 VPROT_VALUE SYS\$SETPRV, SYS\$GETJPIW		
														PSECT	\$CODE\$,NOWRT,2		
			,			2	20	SE	00000 00000 00000 00000 00000		00 9 00 9 EF 9 EF 9	DE 00000 DE 00001 DE 00011 DE 00011 DE 00011		WORD 10VAB 10VAB 10VAB 10VAB 10VAB 5UBL 2	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11 CLISPRESENT, R10 FLAGS, R9 RETMIN_VALUE, R8 P.AAD, R7 #40, SP #34471936, DESC DESC+4 R7	04	.41
								6A 62 69		18	01 50 02	0 0002(0 0003) 0 0003 9 0003(8 0003) 0 0004(0 0004) 8 0005(1 0005) 1 0006(0 0006) 9 0007(0 0007) 6 0007(8 0007)		CALLS BLBC BISB2 PUSHAB PUSHL HOVE SALLS BOVE BLBS BRW	#1, CLISPRESENT RO, 75 #2, FLAGS PRIVS #1 #1, -(SP)	04 04 04	
					000	0000	006	7E 00 56 03			01 7 04 F 50 E	D 0004 B 0004 0 0004 8 0005		10VQ CALLS 10VL BLBS	#1(SP) #4. SYS\$SETPRV RO, STATUS STATUS, 1\$ 48\$ #2. PRIVS+2, 2\$ #SET\$_OPERREQ 49\$		
				09		1	A	AE	00000	2000	02 E 02 E 8F 04BD	0 0005 0 0005	18:	BBS PUSHL BRU	#2. PRIVS+2. 28 #SET\$_OPERREQ	04 04	73 75
						6	C	A8 68 29		20		0006 00006 0006 0006 0006 0006	28:	RW 10VL PUSHAB PUSHAB ALLS	#3. ACC_VALUE DESC P.AAF #2. CLISGET_VALUE	04 04	82 87
					000	0000	006	7E 00		E C 28 28	AE C	9 0007 6 0007 6 0007 6 0007 8 0007		OVL PUSHAB PUSHAB SALLS BLBC PUSHAB PUSHL HOVZUL	#3, ACC_VALUE DESC P.AAF #2, CLI\$GET_VALUE R0, 7\$ ACC_VALUE DESC+4 DESC, -(SP) #3, LIB\$CVT_DTB	04 04 04	90 91 90

SETVOL V04-000							1	2 S-Sep- Sep-	1984 01:01: 1984 12:09:	55 Y	X-11 Bliss-32 V4.0-742 CLIUTL.SRCJSETVOLUME.B32;1	Page (7
				03	04	50 E	00085	70.	BLBS	RO 48		
				50	EC	A 0 0	0008B	38: 48:	MOVL	ACC_VALL	JE, RO	0498
			000000FF	8F	05	0F 31	00091	5\$: 6\$:	HOVE BERWLESS AB BERWLESS AB CHESS AB PUSHAB CHESS AB PUSHAB CHESS AB CHESS	ACC_VALU 6\$ 57\$ RO, #259		0499
					24	50 D1 4 14 47 91	0009B	78:	BGTR	P. AAH		0511
				6A 5D 69		01 FE	000A0		CALLS	#1, CLIS RO, 128 #4, FLAC DESC P.AAJ	SPRESENT	
				69	20	04 88	000A6		BISB2 PUSHAR	M4. FLAG	is a second of the second of t	051 051
				6B	38	AE 9F A7 9F 02 FE			PUSHAB	P. AAJ	BGET_VALUE	•
			04	6B 06 A9		50 E8	000B2		BLBS BISB2	#2, CLIS RO, 8\$ #4, DFL/ 12\$	AGS	051
				W.		48 11	00089	88:	BRB	12\$	100	0519
				6B	20 4C	AE 91 02 FE 50 E9 AE 30	000BE		PUSHAB	P. AAL	RGET VALUE	
				6B 3C 54 BE	20	50 E9	00004		BLBC	RO. 12\$	TO THE OF	052
	54	A7	24	BE			000CB		CMPC3	R4. aDE	C+4, P.AAN	. 032
			04	A9		06 12 04 88 62 11 54 29 06 12 02 88	000BB 000BE 000C1 000C7 000C8 000D1 000D7 000D9 000DF 000E1		BISB2	#4. DFL	GET_VALUE C+4, P.AAN AGS	052
	50	A7	24	BE		54 29 06 12	00009	9\$:	CMPC3	R4. aDES	SC+4, P.AAO	0524
			04	A9		02 8	000E1		BISB2	#2. DFL/	NGS	0526
	60	A7	24	BE		04 11 54 29 06 12	000E7	108:	CMPC3	R4, aDES	SC+4, P.AAP	052
			04	A9		06 12 10 88	OOOEF		BISB2	MIA DEL	AGS	0529
	68	A7	24	BE			000F5	115:	CMPC3	R4, ades	SC+4, P.AAQ	0530
			04	A9		54 29 88 12 88 11 67 91	000E7 000ED 000EF 000F3 000F5 000FD 00101 00107 0010A 0010D		BISBS	#8. DFLA	AGS	053
					080	C7 9F	00103	125:	PUSHAB	P. AAR	PORTOFUT	0544
			00000000	6A 56 8F		01 FE	0010A		MOVL	RO. STAT	TUS ADDITION	054
			000000006			0A 13	00100		BEQL	13\$	ACT 12 VR2ENI	054
01 A9		01	01	A9 05		10 88 56 FC	0011A	470	INSV INSV	STATUS,	MS, #1, FLAGS+1	0549 0549 055
				6A	0094	01 FE	00120	138:	CALLS	#1. CLIS	BPRESENT	. 055
				6A 46 69 00		01 FE 50 E9 08 86 05 D0 AE 91	00116 0011A 00120 00124 00127 0012A 00134 00137		BISB2	#8. FLAG	SS	0558
			000000006	00	20	05 DC AE 91	00120		MOVL PUSHAB	MS, EXTE	VALUE	0558 0559 0560
				6B 2F	20 8A00	C7 91	00137 0013B		PUSHAB	AS' CFI	GET_VALUE	
				2F 00000	00006	50 E9	0013B 0013E 00141 00147		BLBC PUSHAB	RO 175 EXTE_VAL	GC+4, P.AAQ GS SPRESENT US #CLI\$_ABSENT AGS+1 #5, #1, FLAGS+1 SPRESENT SQUE GGET_VALUE UE (SP)	0563
				7E	28	00 91 AE DE AE 30	00147		PUSHL	DESC#4	(SP)	0564 0564 0563

SETVOL VO4-000
104 000

				K 2 16-Sep-1 14-Sep-1	984 01:01 984 12:09	:55 VAX-11 Bliss-32 V4.0-742 :22 ECLIUTL.SRCJSETVOLUME.B32;1	Page 28
00000000G	00	93	FB 001 EB 001 31 001	48	CALLS BLBS BRW	#3. LIB\$CVT_DTB R0. 14\$ 53\$:
	50	000000006 00	E8 001 31 001 00 001 18 001	58 58 148:	BRW	538	0571
	30	03	18 001	62	MOVL BGEQ BRW	EXTE_VALUE, RO	; 0571
0000FFFF	8F	043¢	31 001 01 001	64 158: 67 168:	CMPL BGTR	RO #65535	0572
		00C0 C7	9F 001	6E 70 178:	PUSHAB	P. AAX	0584
	6A 03	01 50	FB 001 E8 001 31 001 88 001	74	CALLS BLBS BRW	#1. CLISPRESENT	
	69	0067 10	FB 001 E8 001 31 001 88 001	7A 188.	BRW	22\$	0501
	07	FO A8	04 001 9F 001	70 18\$: 80	BISB2 CLRL PUSHAB	FPROT_VALUE	0591 0592 0594
	6A	00E0 C7	9F 001	85 87	PUSHAB	P.AAZ	: 0594
F2	6A 1F A8	01 50 0F	FB 001 E9 001 88 001 9F 001 9F 001	8A	CALLS BLBC BISB2 PUSHAB PUSHAB	#1, CLISPRESENT R0, 198 #15, SETPRO_MASK	0597
, ,	NO	20 AE 0100 C?	9F 001	91	PUSHAB	DESC P.ABB	0597 0598
	6B 0E	0100 67	FB 001	98	CALLS	#2, CLISGET_VALUE	
	OE	20 AE 01 50 01 01 0120 C7	E9 001 9F 001 FB 001	9E	CALLS BLBC PUSHAB	DESC P.ABB #2, CLISGET_VALUE R0, 19\$ DESC #1, PARSE CLASS	0599
0000000V F0	EF A8	01	FB 001 B0 001	A1	MOVW	#1. PARSE_CLASS RO. SETPRO_PROT P.ABD	
10			9F 001	AC 198:	PUSHAB	P. ABD	0601
	6A 23 A8	50	FB 001 E9 001	B3	BLBC	#1, CLISPRESENT RO, 20\$	
F2	A8	01 50 F0 8F 20 AE 0140 C?	E9 001 88 001 9F 001	86 88	BLBC BISB2 PUSHAB	#240 SETPRO MASK	0604
	40	0140 67	9F 001	BE	PUSHAB	P.ABF	
	6B	02 50 20 AE	E9 001	C5	PUSHAB CALLS BLBC PUSHAB	RO. 20\$:
00000000v	EF		9F 001 FB 001	CB	CALLS	DESC P.ABF #2, CLISGET_VALUE R0, 20\$ DESC #1, PARSE_CLASS	0606
FO	50 A8	0160 C?	A8 001	D2 D5	CALLS MULL2 BISW2 PUSHAB	#16, RO RO, SETPRO PROT	•
. •		0160 67	9F 001	09 208:	PUSHAB	#1, PARSE_CLASS #16, R0 R0, SETPRO_PROT P.ABH #1. CLI\$PRESENT R0, 21\$ #15, SETPRO_MASK+1 DESC P.ABJ	0608
	6A 23 A8	50	E9 001	EQ	BLBC	RO, 21\$	
F3	AB	01 50 0f 20 AE 0180 C7 02 50 20 AE	9F 001	E 7	CALLS BLBC BISB2 PUSHAB PUSHAB CALLS BLBC PUSHAB	#15 SETPRO_MASK+1 DESC	0611 0612
	6B	0180 C7	9F 001	EA FF	PUSHAB	P. ABJ #2. CLISGET VALUE	•
	6B 12	20 AE	E9 001	FI	BLBC	RO, 21\$	0613
V0000000V	EF	01	FB 001	7	CALLS	#1, PARSE_CLASS	; 0013
FO	50 A8	50	9F 001 FB 002	02	CALLS ASHL BISW2 PUSHAB	#2, CLISGET_VALUE R0, 21\$ DESC #1, PARSE_CLASS #8, R0, RU R0, SETPRO_PROT	•
		01A0 C7	9F 002	06 21\$:	PUSHAB		0615
27	6A 24 A8	50	E9 002	00	BLBC	#1, CLISPRESENT RO 228 #240, SETPRO_MASK+1 DESC P.ABN	0619
F3	NO.	FO 8F 20 AE 01CO C?	9F 002	15	PUSHAB	DESC PASKY	0618 0619
	68	01A0 C7 01 50 F0 8F 20 AE 01C0 C7	C4 001 A8 001 FB 001 FB 001 FB 001 FB 001 FB 001 FB 002 FB 002 FB 002 FB 002 FB 002 FB 002 FB 002 FB 002 FB 002 FB 002	10	CALLS BLBC BISB2 PUSHAB PUSHAB CALLS BLBC	#2, CLISGET_VALUE	•
	6B 12	50	E9 002	1F	BLBC	#2. CLISGET_VALUE RO. 22\$	0

SETVOL VO4-000					16-Sep- 14-Sep-	1984 01:01:55 1984 12:09:22	VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETVOLUME.B32;1	Page 29 (7)
		50 00000000	V EF 50	AE 01 00	9F 00222 FB 00225 78 0022C	PUSHAB DESC CALLS #1, ASHL #12.	PARSE CLASS RO, RO SETPRO_PROT	: 0620
		FO	A8 0100	50 C7 01	A8 00230 9F 00234 228: FB 00238	BISW2 RO. PUSHAB P.AE CALLS #1,	SETPRO_PROT SP CLI\$PRESENT	0627
		00000000	G 8F	56	D1 0023E	CMPL STAT	CLISPRESENT STATUS IUS, #CLIS_ABSENT	0628
		01	A9 50 07	8F	88 00247 D2 00246	BISB2 #64	FLAGS+1	0631 0632
01	A9	01	07 01E0	50 C7	FÖ 0024F 9F 00255 238:	INSV RO.	FLAGS+1 US, RO #7, #1, FLAGS+1	0638
			6A 2E	01 50	FB 00259 E9 0025C	CALLS #1, BLBC RO,	25¢	•
			01F0	AE C7 02	9F 0025F 9F 00262 FB 00266	PUSHAB DESC CALLS #12 BISW2 RO. PUSHAB P.AE CALLS #1, MOVL RO. CMPL STAT BEQL 23\$ BISB2 #64 MCOML STAT INSV RO. PUSHAB P.AE CALLS #1, BLBC RO. PUSHAB P.AE CALLS #2, BLBC RO. PUSHAB P.AE CALLS #2, BLBC RO. BISB2 #32 CMPW DESC BISB2 #32 CMPW DESC BISB2 #32 CMPW DESC	CLISGET_VALUE 25\$ FLAGS . #12	0640
			68 21 69 00 20	03	88 0026C B1 0026F 18 00273	BISB2 #32 CMPW DESC BLEQU 24\$	FLAGS	0643 0644
		F 4 F 8 20	A8 20 A8 24 AE 020E0000	0307 AE AE	31 00275 3C 00278 248: DO 0027D	MOVI DESI	LABEL VALUE +4, LABEL VALUE+4 71936. DESC +4	0650 0651 0652
		20	24	8F	DO 00282 D4 0028A	MOVL #344 CLRL DESC	71936. DESC +4	
	40		6A 06	C7 01	9F 0028D 25%: FB 00291	MOVL #344 CLRL DESC PUSHAB P.AE CALLS #1, INSV RO, PUSHAB P.AE	CLISPRESENT #6, #1, FLAGS X	0658
	69	01	0224	C7	F0 00294 9F 00299	PUSHAB P.ÁE	#6, #1, FLAGS BX	0663
		00000000	6A 56 6 8F	50	9F 00299 FB 0029D D0 002A0 D1 002A3 13 002AA 88 002AC F0 002B0 9F 002B6 FB 002BA E9 002BD 88 002C0	MOVI PO	CTATUC	0664
02	A9	01	A9 01	0A 01 56	13 002AA 88 002AC F0 002B0	BISB2 #1.	FLAGS+2	0667 0668 0674
O.E.	W.	•	0238	C7	9F 002B6 265: FB 002BA	PUSHAB P.AE	IZ CLISPRESENT	0674
			6A 45 69 80	50 8F	FB 002BA E9 002BD 88 002C0 9F 002C4	BLBC RO. BISB2 #128	29\$, FLAGS	0677 0678
			69 80 20 0240	8F AE C7	9F 002C4 9F 002C7	PUSHAB P.AC	B LECES HALLIE	0678
			68 24	50 76	FB 002CB E8 002CE 7C 00201	BLBS RO.	28\$	0687
			0254	AE C7 7E	9F 002C4 9F 002C7 FB 002CB E8 002CE 7C 002D1 9F 002D3 9F 002D6 7C 002DA D4 002DC FB 002DE D0 002E5	CALLS #1, MOVL RO, CMPL STATE BEGL 26\$ BISB2 #1. INSV STATE PUSHAB P.ACCALLS #2. BLBS RO, CLRQ -(SF PUSHAB P.ACCALLS #2. CLRQ -(SF PUSHAB P.ACCALLS #2. CLRQ -(SF PUSHAB P.ACCALLS #7. MOVL RO, BLBS STATE BLBS STATE BLBS STATE BLBS STATE BLBS STATE BLBS STATE BRW 48\$ PUSHAB UIC.	FLAGS+2 US, W1, W1, FLAGS+2 ILISPRESENT 29 CLISPRESENT 29 CLISGET_VALUE 28 CLISGET_VALUE 28 CLISGET_VALUE 28 CLISCET_VALUE 28	
		00000000	G 00 56	7E 07	D4 002DC FB 002DE	CALLS #7.	SYS\$GETJPIW	
			07 56 18	50 56 AE 56	E9 002E8 3c 002EB	BLBC STÁT MOVZWL IOSE	TUS, 278	0688 0689
			13	022A	E9 002E8 3C 002EB E8 002EF 31 002F2 27\$: 9F 002F5 28\$:	BLBS STATE	rus, 29\$	0688 0689 0690 0693 0697
			00000000	6 00	9F 002F5 28\$:	PUSHAB UIC	VALUE	: 0697

SETVOL VO4-000			16-Sep-1984 01:01:55 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:09:22 [CLIUTL.SRC]SETVOLUME.B32;1	Page 30 (7)
	00000000G	00 24 0270	AE 9F 002FB	0703
		6A 03	01 FB 00309 CALLS #1. CLISPRESENT 50 E8 0030C BLBS R0, 30\$	
	01	A9 FC 028C	50 E8 0030C BLBS R0, 30\$ 088 31 0030F BRW 34\$ 04 88 00312 30\$: BISB2 #4, FLAGS+1 A8 D4 00316 CLRL VPROT_VALUE C7 9F 00319 PUSHAB P.ACG 01 FB 0031D CALLS #1, CLI\$PRESENT 50 E9 00320 BLBC R0, 31\$ 0F 88 00323 BISB2 #15, SETPRO_MASK AE 9F 00327 PUSHAB DESC C7 9F 0032A PUSHAB P.ACI	0710 0711 0713
	FE	6A 1F A8	01 FB 0031D CALLS #1, CLISPRESENT 50 E9 00320 BLBC R0, 31\$ 0F 88 00323 BISB2 #15, SETPRO_MASK	
		02A8	AE 9F 00327 PUSHAB DESC C7 9F 0032A PUSHAB P.ACI	0716 0717
	00000000v	68 0E 20	02 FB 0032E CALLS #2, CLISGET_VALUE 50 E9 00331 BLBC R0, 31\$ AE 9F 00334 PUSHAB DESC 01 FB 00337 CALLS #1, PARSE CLASS	0718
	FC	6A 02C0	50 B0 0033E MOVW RO, SETPRO PROT C7 9F 00342 318: PUSHAB P.ACK 01 FB 00346 CALLS #1. CLISPRESENT	0720
	FE	6A 23 A8 F0 20 02D8	AE 9F 002FB (7 9F 00305 29\$: PUSHAB DESC (ALLS #2, PARSE_UIC PLSHAB P. ACE CALLS #1, CLI\$PRESENT BLBS R0, 30\$ 34\$ 88 00312 30\$: BISB2 #4, FLAGS+1 CLRL VPROT_VALUE PUSHAB P. ACG PUSHAB DESC PUSHAB DESC CALLS #1, CLI\$PRESENT BLBC R0, 31\$ 81 SB2 #1, SETPRO_MASK PUSHAB DESC CALLS #2, CLI\$GET_VALUE BLBC R0, 31\$ PUSHAB DESC CALLS #1, PARSE_CLASS #00337 AE 9F 00337 AE 9F 00337 AE 9F 00336 PUSHAB P. ACI CALLS #2, CLI\$GET_VALUE BLBC R0, 31\$ PUSHAB DESC CALLS #1, PARSE_CLASS #00VW R0, SETPRO_PROT PUSHAB DESC CALLS #1, CLI\$PRESENT BLBC R0, 32\$ BLBC R0, 32\$ BLBC R0, 32\$ BLBC R0, 32\$ BLBC R0, SETPRO_MASK PUSHAB P. ACK CALLS #1, CLI\$PRESENT BLBC R0, SETPRO_MASK PUSHAB DESC PUSHAB P. ACM CALLS #2, CLI\$GET_VALUE BLBC R0, 32\$ BLBC R	0723 0724
		6B 11	02 FB 00358	0725
	00000000V FC	EF 50 A8	AE 9F 0035E PUSHAB DESC 01 FB 00361 CALLS #1, PARSE_CLASS 10 C4 00368 MULLZ #16, RO 50 A8 0036B BISW2 RO, SETPRO_PROT	
		02F0 6A 23 A8	50 A8 0036B BISW2 RO, SETPRO_PROT C7 9F 0036F 32\$: PUSHAB P.ACO 01 FB 00373 CALLS #1, CLI\$PRESENT 50 F9 00376 BLBC RO, 33\$	0727
	FF	A8 20 0308	7 9F 00309 01 FB 00309 02 80 00309 02 80 00300 03 80 00309 04 88 00312 05 9F 00319 01 FB 00320 01 FB 00320 01 FB 00320 01 FB 00320 02 FB 00324 03 FB 00326 03 FB 00326 04 FB 00326 05 FB 00326 06 FB 00326 07 FB 00326 08 FB 00326 08 FB 00326 09 FB 00326 01 FB 00337 01 FB 00358 01 FB 00366 01 FB 00358 01 FB 00380 02 FB 00380 03 FP 00380 03 FP 00380 03 FP 00380 04 FP 00380 05 FP 00380 06 FP 00380 07 FP 00380 08 FP 0	0730 0731
	00000000v	6B 12 20	C7 9F 00380	0732
ļ	50 FC	50 A8 0320	08 78 00394 ASHL #8, R0, R0 50 A8 00398 BISW2 R0, SETPRO_PROT C7 9F 0039C 338: PUSHAB P.ACS 01 FB 003A0 CALLS #1, CLISPRESENT	0734
	FF	6A 24 A8 F0 20 0338	50 E9 003A3 BLBC R0, 34\$ 8F 88 003A6 BISB2 #240, SETPRO_MASK+1 AE 9F 003AB PUSHAB DESC	0737 0738
•		0338 68 12	C7 9F 003AE PUSHAB P.ACU 02 FB 003B2 CALLS #2, CLISGET_VALUE 50 F9 003B5 BLBC P0 34\$	
	50 00000000v	20 EF 50 A8	02 FB 003B2	0739
	FC	A8 0348	50 AB 003C6 C7 9F 003CA 348: PUSHAB P.ACW O1 FB 003CE CALLS #1, CLISPRESENT	0746

SETVOL VO4-000									16-S 14-S	2 ep-1984 (ep-1984)	12:01:	55	VAX-11 BL1ss-32 V4.0-742 [CLIUTL.SRC]SETVOLUME.B32;1	Page 3
				000000006	56 8F		50	00 00 01 00	301	MOV	/L	RO.	STATUS US, #CLIS_ABSENT	: 074
02	A9		01	02	A9 05	035C	10 56 C?	88 00 F0 00 9F 00	300 300 3E1 3E7 35	81: PU:	AL SB2 SV SHAB LLS SC SB2	STAT P.AC	FLAGS+2 US, #5, #1, FLAGS+2	075 075 075
	08		00	01	6A 69 A9 6E		50 01 00	88 00 20 00	3EE 3F1 3F5	BIS BIS MOV	3C 3B2 7C5	RO. #1. #0.	CLISPRESENT 40\$ FLAGS+1 (SP), #0, #8, RETMIN_VALUE	076 076
	08		00		6E		68	5c 00	3FA 3FB				(SP), #0, #8, RETMAX_VALUE	076
					6B 03	08 20 0370	00 68 00 A8 C7 02	FB 00	1400 1402 1405 1409 1400	PUS PUS CAL BLE	SHAB SHAB LS	DESC P.AD #2. RO.	A CLISGET_VALUE 36\$	077
				000000006	00 56 04	18 24	0160 AE 02 50	9F 00	140F 1412 36 1415 1418 141F	D: PU:	HAB	TEMP DESC #2. RO.	LIB\$CVT_DTIME STATUS US, 37\$ TEMP_DESC, RETMIN_VALUE CLI\$GET VALUE	078
					04		56 58	DD 00	422	BLE PU	SHL	STAT R8	US, 378	078
			68	18	AE 68 21	0384	08 AE C7	28 00 9F 00 9F 00 FB 00)427)429 37)42E)431)435	S: MOY PUS PUS CAL	C3 SHAB SHAB	MB, DESC P.AD	TEMP_DESC. RETMIN_VALUE C CLISGET_VALUE	078 079
				000000006	21 00 56 06	18 24	568888E7205AE205	9F 00 9F 00 FB 00	4 58 4 5B 4 5E 4 4 1 4 4 8	BLE PUS PUS CAL MON	SHAB LS /LS SHAB SHAB SHAB SHAB SHAB	RO, TEMP DESC #2,	CLISGET_VALUE 41\$ _DESC LIBSCYT_DTIME STATUS US, 39\$	079
					06	08	56 A8	E8 00	44B	BLE PUS	35	STAT	US, 398 IAX_VALUE	079
		08	A8	18	AE 6E		01286 8F 8F 8A 8A 6A 8A 01 09	31 00 28 00 11 00 00 00	451 38 454 39 45A 40 45C 41 463 469 46E 473	S: BRI S: MOV S: BRE S: MOV	C3	#8,	TEMP_DESC, RETMAX_VALUE	080 079 081
		10	AE	04	AE 68	FA7F	8F 68	32 00 C1 00 D8 00 C1 00	463 469	ADE	L3	RETM	09, ONE WEEK#4 IIN_VALUE, RETMIN_VALUE, DOUBLE	081
		08	AE	14	6E	04	AE 6E A8	D8 00 C1 00	473 478 470	CVI ADE MON ADE MON ADE MNE CMF BLS	L3	DOUB ONE RETM	6047732, ONE WEEK 09. ONE WEEK #4 IN VALUE, RETMIN VALUE, DOUBLE IN VALUE +4, DOUBCE WEEK, RETMIN VALUE, WEEK_PLUS IN VALUE +4, GEEK_PLUS WEEK, WEEK_PLUS RO LE, WEEK_PLUS	081
				0C 0C		04	AE 01	DO 00 DB 00 CE 00	482 487	ADI	GL C	ONE_	WEEK, WEEK PLUS	082
				ОС	AE	14	OF OP	19 00	48F 1491	RG	SS	448	LE, WEEK_PLUS	
				08	AE	10	AE 04 50 50	01 00 13 00 15 00 06 00 05 00	1470 1482 1487 1488 1491 1493 1498 1496 1496 1496 1496 1480 1480	CM/ BE(SU L	DOUB 43\$ 44\$ RO RO RO	LE, WEEK_PLUS	

SETVOL V04-000								1	5-Sep-	1984 01:01 1984 12:09	:55	VAX-1; Bliss-32 V4.0-742 [CLIUTL.SRC]SETVOLUME.B32;1	Page 37
	08	A8	10	AE		80	15	004A2		BLEQ MOVC3	45\$ #8 46\$	DOUBLE, RETMAX_VALUE	0821
	08	A8	08	AE	0394	08 08 06 08	11 28 9F	004AA 004AC 004B2	458: 468:	BRB MOVC3	46\$ #8. P. Al	WEEK PLUS. RETMAX VALUE	0822 082
				6A 56	0374	01 50	FB DO	00486 00489	409:	CALLS MOVL CMPL BEQL BISB2 INSV PUSHAB CALLS BLBC BISB2 PUSHAB	#1, RO.	CLISPRESENT STATUS TUS, #CLIS_ABSENT	. 002
		(000000006	8F		56 0A	D1 13	004BC		CMPL BEQL	6/3		0830
02 A9		01	02	A9 03	0748	56	88 F 0 9 F	004C5 004C9	478.	BISB2 INSV	STAT	FLAGS+2 TUS, #3, #1, FLAGS+2	0833 0834 0840
				6A 73 A9	03A8	01	FB F9	004CF 004D3	47\$:	CALLS	#1. RO.	CLISPRESENT	: 0840
			01	A9	20 03BC	50 02 AE C7	88 9f	004D6 004D9 004DD 004E0		BISB2 PUSHAB	W2. DES	CLISPRESENT 52\$ FLAGS+1	084 084
				6B 47	0380	C7 02	9F FB	004E0 004E4 004E7		r osmali	P.AI	CLISGET_VALUE	
				50	10 0202000C	02 50 AE 8f A9	68 9E	004EA		CALLS BLBS MOVAB	RO. JPI	LIST, \$\$ITMBLKPTR	0854
				50 80 80	08	A9 A8	00 9E 9E	004F5 004F9 004FD		MOVAB	USEF	LABEL, (\$\$ITMBLKPTR)+ TVALUE, (\$\$ITMBLKPTR)+	
					**	80 7E	7C	004FD 004FF 00501		MOVL MOVAB MOVAB CLRL CLRQ PUSHAB	(\$\$) -(S)	LIST, \$\$ITMBLKPTR \$85516, (\$\$ITMBLKPTR)+ R_LABEL, (\$\$ITMBLKPTR)+ VALUE, (\$\$ITMBLKPTR)+ ITMBLKPTR)+ SLIST	0850
					10 10	A8 7E AE 7E 7E	9f 9f 7c	00504 00507 00509		PUSHAB PUSHAB CLRQ	JPI -(SI	LIST	
		(00000000G	00		07	D4 FB	0050B		CLRL	-(SI	P) SYS \$ GETJPIW	
				00 56 07 56 08		50 56 AE 56	DO E9	00512		MOVL BLBC	RO, STAT	STATUS TUS. 48\$ 3. STATUS	085
				0B	08	56 56	3C E8	00518 00510	488.	MOVZWL BLBS	SIA	US. 30%	085 085 085 086
		(0000000G	00		56 01 67	FB 11	00521 00528	495:	PUSHL CALLS BRB	#1 55\$	LIB\$SIGNAL	
			14	A8	08	A9 1B	9E	0052A 0052F	508:	MOVAB	USEF	R_LABEL, USER_VALUE+4	0863 0865 0844 0869
			10	00	20	AE 48	B1 1A	00531	518:	CMPW BGTRU MOVZWL	DES(. #12	
			10 14 20	A8 A8 AE	20 24 020E0000	AE AE AE AE AE C7	3C DO DO D4 9F	0051F 0052B 0052B 0052F 00531 00535 00537 00549 00549		MOVL	DESC	. USER VALUE+4	087 087 087
			20		0300	AE C7		00549 00540	528:	CLRL PUSHAB	DESC P. AL)K	0884
				6A 67		01 50	FB E9	00550 00553		BLBC	#1. RO.	CLISPRESENT 58\$	•
			01 18	A9 A8	20	07	88 DO 9F	0055A		MONT BI285	#8. #7	MINDOM_AVER	0887 0888 0889
				6B	0300	C7	9F	00561		MOVL CLRL PUSHAB CALLS BLBC BISB2 MOVL PUSHAB PUSHAB CALLS BLBC PUSHAB PUSHAB PUSHAB	P. AC	USER VALUE 44. USER VALUE+4 71936, DESC 44 CLISPRESENT 585 FLAGS+1 WINDOW_VALUE M CLISGET_VALUE	, 0001
				6B 52	18	50 A8	FB E9 9F	00568 0056B		BLBC PUSHAB	RO.	CLISGET_VALUE 58\$ OU_VALUE +4 -(SP)	0892
				7E	18 28 28	AE AE	DD 3C	0056E 00571		MOVZWL	DESC	, -(SP)	0892 0892 0892

SETVOL V04-000			C I 16-Sep-1984 01:01:55 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:09:22 [CLIUTL.SRC]SETVOLUME.B32;1	Page 33 (7)
	0000000G	20	03 FB 00575 CALLS #3, LIB\$CVT_DTB 50 E8 0057C BLBS R0, 56\$ AE 9F 0057F 53\$: PUSHAB DESC 01 DD 00582 54\$: PUSHL #1 8F DD 00584 PUSHL #7803130 03 FB 0058A CALLS #3, LIB\$SIGNAL	0897
		00 007710FA 00 18	CE 11 0034 339; BKB 349	0898 0900
	00000050	8F 18 007711EA 24	A8 D1 00593 56\$: CMPL WINDOW_VALUE, #7 OA 19 00597 BLSS 57\$ A8 D1 00599 CMPL WINDOW_VALUE, #80 1A 15 005A1 BLEQ 58\$ 8F DD 005A3 57\$: PUSHL #7803370	0901 0904
	00000000G	007710FA	01 DD 005AC PUSHL #1 8F DD 005AE PUSHL #7803130 04 FB 005B4 CALLS #4, LIB\$SIGNAL	
		50	04 11 0058B BRB 59\$ 01 D0 005BD 58\$: MOVL #1, R9 04 005CO RET	0905 0910
			04 005C0 RET 50 D4 005C1 59\$: CLRL RO 04 005C3 RET	0911

: Routine Size: 1476 bytes, Routine Base: \$CODE\$ + 0107

```
ROUTINE process_volume_set (root_desc, original_rvn, max_rvn) : NOVALUE =
BEGIN
                                      find each volume in the volume set and modify it.
                                      Inputs:
                                               root_desc - descriptor of root volume original rvn - volume number of original volume max_rvn - highest volume number in set
                                      Outputs:
                                               None.
                                         root_desc : REF VECTOR;
                                   LOCAL
                                          status
                                         status,

status2,

saved_flags,

reduced_flags,

this_rvn: volatile,

iosb: VECTOR[4,WORD],

desc1: VECTOR[2],

desc2: VECTOR[2],

buffer1: VECTOR[128,BYTE],

buffer2: VECTOR[128,BYTE],

dvi list: $ITMLST_DECL(ITER
                                                                                                             Saved original flags
                                                                                                             Reduced flags
                                                                                                             $GETDVI status block
                                                                                                           ! Device descriptors
                                                                                                           ! Device buffers
                                          dvi_list : $ITMLST_DECL(ITEMS=2);
                                                                                                          ! $GETDVI item list
                                      Do a little sneaky stuff first. Transfer the root volume's name to the
                                       local descriptor. Save the current flag settings, and calculate the
                                      flags for other volumes in this volume set.
                                   desc1[0] = .root_desc[0];
desc1[1] = buffer1;
desc2[1] = buffer2;
                                                                                                             Set up so we
                                                                                                           ! can loop easily
                                   CH$MOVE(.root_desc[0],
.root_desc[1],
buffer1);
                                    saved_flags = .flags;
                                                                                                             Save original
                                                           .flags AND
                                                                                                             The reduced set has
                                    reduced_flags =
                                                           (1^qual_erase OR
1^qual_erase_val OR
1^qual_fhw_OR
1^qual_fhw_val);
                                                                                                             only the ERASE
                                                                                                             and
                                                                                                             HIGHWATER
                                                                                                             qualifiers
                                      for each volume in the set, check to see if this is the original, or only one of the sister volumes, and set FLAGS accordingly. To do this, we need
     974
     975
                                      to call $GETDVI to see what the volume number is. But I'm getting ahead
```

THEN process one volume(desc1); flags = .saved_flags;

END:

\$DASSGN(CHAN = .channel);

1031

1024

! Restore flags

! Deassign the channel

Page

```
f 3
16-Sep-1984 01:01:55
14-Sep-1984 12:09:22
SETVOL
VO4-000
                                                                                                                         VAX-11 Bliss-32 V4.0-742
[CLIUTL.SRC]SETVOLUME.B32;1
1033
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                                         Perform volume rebuild, if requested.
                                       If .status AND ( .this_rvn EQL .original_rvn )
                                             If .flags[qual_rebuild] AND .flags[qual_rebuild_val]
                                             THEN
   BEGIN
                                                  EXTERNAL ROUTINE
                                                                                         ! Perform volume rebuild
                                                       stand_alone_rebuild:
                                                  LOCAL chan: WORD:
                                                  status = $ASSIGN( DEVNAM=desc1, CHAN=chan );
IF NOT .status
                       THEN SIGNAL (set$_openout, 1, desc1, .status, 0);
                                                  stand_alone_rebuild( .chan );
                                                                                                 ! Do the rebuild.
                                                  status = $DASSGN( CHAN=.chan );
IF NOT .status
                                                  THEN SIGNAL (set$_closeout, 1, desc1, .status, 0);
                                                  END:
                                       IF .this rvn EQL .max_rvn THEN EXITLOOP:
                                                                                                     ! If end of volume
                                                                                                    ! set, leave
                                       CH$MOVE(.desc2[0],
                                                                                                      Now switch to the
                                                  buffer2,
buffer1);
                                                                                                      next volume in this
                                                                                                    ! volume set.
                                       END:
                                    for this volume set, if the /LABEL flag was set, then we must also modify [0,0]VOLSET.SYS on the root volume. Note that ODS1 volumes
                                    cannot be volume sets so will fail this test.
                                 iF .max_rvn GTR 1
AND .flags[qual_label]
THEN modify_volset(.root_desc);
   1075
   1076
                                 RETURN;
END;
```

.EXTRN SYSSOPEN, SYSSDASSGN .EXTRN STAND ALONE_REBUILD .EXTRN SYSSASSIGN

0951

0912

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SETVOL V04-000								18	-Sep-	1984 01:01 1984 12:09	:55	VAX-11 Bliss-32 V4.0-742 CCLIUTL.SRCJSETVOLUME.B32;1	Page	(8)
	FF64	CD	EC F 0 E 8 04	AD AD AD B6	FF64 20	66 CD AE 66	D0 95 00	00010		MOVL MOVAB MOVAB MOVC3	(R6) BUFF BUFF (R6)	DESC1 ER1. DESC1+4 ER2. DESC2+4 . 34(R6). BUFFER1 S. SAVED_FLAGS 441. FLAGS. REDUCED_FLAGS 1. FAB+52 1+4. FAB+44	0)952)953)954
		59	03BC 0384	68	FFFFOFFF EC FO 0388	00 A 6 B A A B 1	90 90 9f	00028 00028 00033 00039 0003F	18:	MOVL BICL3 MOVB MOVL PUSHAB			000000000000000000000000000000000000000	952 953 954 958 960 977 978
			000000006	00 57 16		01 50 57	FB DO E8	00043 0004A 0004D		CALLS MOVL BLBS PUSHL PUSHAB	#1, RO, STÅT STÅT	SYSSOPEN STATUS US, 28		
			000000006	00	EC 00000000G	AD 01 8F 04	OD OD OD FB	00052		PUSHAB PUSHL PUSHL CALLS	DESC #1 #SET	1 \$ WRITEERR	Ŏ)983)980
			0224	CB 50 80	0394 04 002E0004 FC	O7 CB AE 8F AD	11 00 9E 00 9E	00064 00066 00060	28: 38:	BRB MOVL MOVAB MOVAB	FAB+ DVI #30T THIS	LIBSSIGNAL 12. CHANNEL LIST. \$\$ITMBLKPTR 4660, (\$\$ITMBLKPTR)+ RVN. (\$\$ITMBLKPTR)+	0)985)996
				80 80 80	00340080 20 E4	80 8F AE AD 80 7E	04 00 9E 9E	0007E 00085 00089 0008D		CLRL MOVL MOVAB MOVAB CLRL	(\$\$1 #340 BUFF DESC (\$\$1	12, CHANNEL LIST, \$\$ITMBLKPTR 4660, (\$\$ITMBLKPTR)+ RVN, (\$\$ITMBLKPTR)+ 8000, (\$\$ITMBLKPTR)+ ER2, (\$\$ITMBLKPTR)+ 2, (\$\$ITMBLKPTR)+ TMBLKPTR)+		
					F4 14 EC	7E 7E AD AE AD	7C D4 9F 9F	0008F 00091 00093 00096 00099		CLRQ CLRL PUSHAB PUSHAB PUSHAB	-(SP 10SB DV1 DESC	ί L1SΤ	. 0)999
			000000006	00 58 07 58 15	F4	7E 08 50 58 AD 58	7C FB D0 E9 3C E8	0009C 0009E 000A5 000AB 000AB		CLRQ CALLS MOVL BLBC MOVZWL BLBS	-(SP #8, RO, STAT IOSB STAT	SYSSGETDVIW STATUS2 US2, 45 US2, 55 US2, 58	1	1000 1001 1002 1008
					EC 000000006	58 AD 01 8F 04	9F DD DD	000B2 000B4 000B7 000B9	48:	BLBS PUSHL PUSHAB PUSHL PUSHL CALLS	STAT DESC #1	S WRITEERR LIBSSIGNAL	1	008
			000000006	00 18 AC	FC	57	FB 04 E9	000C6 000C7 000CA	58:	MP I	STAT	US, 8\$ _RVN, ORIGINAL_RVN	1	004 1015 1018
				68		AD 03 59 6B 0A	DO DS	00001 00004 00006	68:	BLBC CMPL BEQL MOVL TSTL BEQL PUSHAB	FLAG		:	019
			00000000v	E F 68	0224	AD 01 5A (B	9F FB DO DD	000DB 000E2	78: 85:	PUSHAB CALLS MOVL PUSHL	DESC SAVE CHAN	1 PROCESS_ONE_VOLUME D_FLAGS, FLAGS NEL SYS\$DASSGN US, 10\$ _RVN, ORIGINAL_RVN	:	021 022 025
			00000000G 08	00 60 AC	FC	01 57 AD	FB E9 D1	000F0 000F3		CALLS MOVL PUSHL CALLS BLBC CMPL	#1 STÁT THIS	SYS\$DASSGN US, 10\$ _RVN, ORIGINAL_RVN	2	029

SETVOL VO4-000								1	Sep-1	984 01:01 1984 12:09	: 55	VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETVOLUME.B32;1	Page 38
		60 58	95	BA BA	08	65 04 05 7E	12 E1 70 9F	000F8 000FA 000FF 00104 00106		BNEQ BBC BBC CLRQ PUSHAB	10\$ #4, #5, -(\$P	FLAGS+2, 108 FLAGS+2, 108	1031 1040
			00000000G	00 57 16	OB EC	AD 0507 F7	9F B D B D D D B D D D B D D D B D D D B D D D B D D D B D D D B D D D B D D D B D D D B D D D B D D D B D D D D B D D D D B D D D D B D D D D B D D D D D B D D D D D D B D	00100 00100 00113 00116 00119		CLRQ PUSHAB PUSHAB CALLS MOVL BLBS CLRL PUSHL PUSHAB PUSHL PUSHL CALLS MOVZWL		SYS\$ASSIGN STATUS US. 9\$	1041 1042
			000000006 000000006	00 7E 00 7E 00	007710A2	AD 01 8F 05 6E 01 6E	DD FB 3C FB 3C	00122 00128 0012F 00132 00139	98:	PUSHL PUSHL CALLS MOVZWL CALLS MOVZWL	#780 #5 CHÂN	LIB\$SIGNAL -(SP) STAND ALONE REBUILD	1044 1046
				00 57 16	EC 0077105A	50 57 7E 57 AD	D0 E8 D4 DD PD DD	00143 00146 00149		CALLS MOVZWL CALLS MOVL BLBS CLRL PUSHL PUSHAB PUSHAB	STAT	SYS\$DASSGN STATUS US, 108	1047 1048
			000000006	00 AC		8F 05 AD	FB D1	00158 0015F	108:	PUSHL PUSHL CALLS CMPL	#5 THIS	2970 LIB\$SIGNAL _RVN, MAX_RVN	1052
	FF64	CD	20	AE	E4	AD OB AD TEC2	28 31	00164 00166 0016E 00171		MOVC3 BRW	DESC	2. BUFFER2, BUFFER1	1055 0971
		09		01 68	00	AC 0D 05 56	D1 15	00171 00175 00177	118:	CMPL BLEQ BBC	125	RVN, #1 FLAGS, 128	1065
		97	00000000v	EF		56 01	DD FB 04	0017B	128:	PUSHL CALLS RET	R6	MODIFY_VOLSET	1066 1067 1070

; Routine Size: 389 bytes, Routine Base: \$CODE\$ + 06CB

RETURN: END:

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CETWOI	
SETVOL	
V04-000	١

J 3 16-Sep-1984 01:01:55 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:09:22 [CLIUTL.SRC]SETVOLUME.B32;1

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.EXTRN SYS\$CMKRNL

				(OF C	00000	PROCESS	ONE VOL	.UME:	4074
		57 565 5E	00000000 00000000 00000000	9F 00 EF 04	9E 9E 0D	00017	PROCESS	MOVAB MOVAB MOVAB SUBL 2 PUSHL CALLS BLBS PUSHL	#4. SP	1071
	0000000v	E F		01 01	FB	0001A 0001C 00023		CALLS	#1. READ_HOMEBLOCK	1093
		66	000000006	50 8F 01	FB DD FB O4	00026 0002C 0002F		PUSHL CALLS RET	RO. 18 #SETS NOHOME #1, LIBSSIGNAL	1094
53		6E 52		54 03 01 15	D4 C5 D0	00030 00032 00036 00039		CLRL MULL3 MOVL BRB PUSHL	STATUS #3, CLUSTER, R3 #1, VBN	1097 1098 1104
	00000000v	FF	04	AC 52	DD DD FR	0003B 0003E 00040	2\$:	PUSHL PUSHL CALLS	DESC VBN	
		E 3 4 6 5 3 5 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		50 01	DD DB E DB E S	00047 0004A 0004D	76.	BLBC	#2, SET_HOME RO, 3\$ #1, STATUS ODS1, 5\$	1105
E7		52	03	65 53 54 A5 01	E9 DD DD	00050 00054 00057	48:	BLBS AOBLEQ BLBC PUSHL PUSHL	R3. VBN, 25 STATUS, 65 CHANNEL #1	1105 1106 1098 1113 1117
		67	000000006	5E 00 04 50	FB DD	0005E 00064 00067 00069		BLBC PUSHL PUSHL PUSHAB CALLS PUSHL PUSHL PUSHL PUSHL	SP GET_CHANNELUCB #4, SYSSCMKRNL UCB #1	1118
0E	FDDF	67	00000000v 04	5E 64 06 AC 01	DD DD 9F FB E1 DD	0006B 0006D 00073 00076 0007C		PUSHL PUSHAB CALLS BBC PUSHL PUSHL	SP SET_UCBVCB #4. SYSSCMKRNL #6. FLAGS, 6\$ DESC #1	1120 1121
		66	000000006	81 03	DD DD FB	0007F 00081 00087		PUSHL PUSHL CALLS	#SETS MODIFIED #3, LIBSSIGNAL	
					04	A8000	68:	RET		: 1126

; Routine Size: 139 bytes, Routine Base: \$CODE\$ + 0850

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                             1127
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1144
                                              ROUTINE read_homeblock(cluster) =
                                                 This routine reads the first good home block of the volume. It uses $QIOW's because $READ finds the End-of-file block to be zero in 9DS1 initialized disks and thus will not try to read the home block. In addition the cluster size and structure level are determined and stored.
                                                  Outputs:
                                                              cluster - cluster size
                                                             ods1 - 0 => 00S2
                                             BEGIN
                                              LOCAL
                                                     desc : $BBLOCK[dsc$c = bln],
fib : $BBLOCK[fib$c extdata],
atr : BLOCKVECTOR[2,8,BYTE],
stablk : $BBLOCK[32],
file_size : VECTOR[2,WORD],
iosb : VECTOR[4,WORD],
                                                                                                                                   Descriptor for the FIB in $QIOW File Information Block for $QIOW
                                                                                                                                   Attribute list for $QIOW
Where statistics block is stored after $QIOW
The file size from statistics block
                             1148
1149
1150
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1152
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1156
1157
1158
1159
                                                                                                                                   Status block for the $010W
                                                      block.
                                                                                                                                    Temporary block count
                                                      status;
                                                                                                                                   Status
1161
1162
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1177
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                                                 Before we can look at the homeblock we have to find how many blocks there
                                                 are (or the block number or the last block). This is done by issuing a
                                                 $910W to get the statistics block.
                                             desc[dsc$w_length] = fib$c_extdata;
desc[dsc$a_pointer] = fib;
                                                                                                                               ! Initialize descriptor pointing to ! to the file info block
                              1160
1161
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                                                                                                                               ! Zero the fib for new info
                                             CH$FILL(0, fib$c_extdata, fib);
                                             fib[fib$l_acctl] = fib$m_noread OR
    fib$m_nowrite;
fib[fib$w_fid_num] = .nam[nam$w_fid_num];
fib[fib$w_fid_seq] = .nam[nam$w_fid_seq];
fib[fib$w_fid_rvn] = .nam[nam$w_fid_rvn];
                                                                                                                                  Deny read and write access to others
                                                                                                                                     ! Specify file identification
                                             atr[0.atr$w_type] = atr$c_statblk;
atr[0.atr$w_size] = atr$s_statblk;
atr[0.atr$l_addr] = stablk;
atr[1.0.0.32.0] = 0;
                                                                                                                                   The attribute we want is the statistics block
                                                                                                                                   It goes into stablk
Indicate end of information
                             1172
1173
1174
1175
1176
1177
                                                                              CHAN = .channel,
FUNC = IO$_ACCESS,
                                                                                                                               ! Access the statistics block
                                              status = $010W (CHAN
                                                                               IOSB = tosb.
                                                                                        = desc.
                                                                                        = atr);
                                             IF .status THEN status = .iosb[0];
IF NOT .status
THEN SIGNAL(.status)
                              1178
1179
                                                                                                                               ! Check if everything Okay
 1188
1189
                              1180
                                                                                                                                        not, tell user, go to end
 1190
1191
                                             BEGIN
                                                                                                                                        okay
 1192
                                                      file_size[1] = .stablk[sbk$w_filesizh]; ! The file size is stored
```

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```
M 3
16-Sep-1984 01:01:55
14-Sep-1984 12:09:22
SETVOL
VO4-000
                                                                                                                                                                     VAX-11 Bliss-32 V4.0-742 ECLIUTL.SRCJSETVOLUME.B32;1
                                                                                                                                                                                                                                                 (10)
                                                                                  .buffer[hm1$w_ibmapsize] NEQ 0 AND checksum2(buffer, $BYTEOFFSET(hm1$w_checksum1)) AND checksum2(buffer, $BYTEOFFSET(hm1$w_checksum2))
   THEN
                                                                                  BEGIN
ods1 = 1;
                                                                                                                                                          Volume is ODS1
Dummy in a cluster size of 1
                                                                                   .cluster = 1;
If .flags[qual_access]
                                                                                                                                       ! If /ACCESSED was specified.
! compute the value to add
! to the LRU value in the VCB
                                                                                          BEGIN
                                                                                          acc_inc = 0;
If .acc_value GTR .buffer[hm1$b_lru_lim]
THEN acc_inc = .acc_value - .buffer[hm1$b_lru_lim];
                                                                                          END:
                                                                                   RETURN true:
                                                                                   END:
                                                                           END:
                                                                                                                                                          End of read success block
                                                                                                                                                          End of INC block
End of file access block
                                                                    END:
                                                            END:
                                                 If here, then no good homeblock was found. Return a value of FALSE to
                                                 show that.
                                             RETURN false:
                                             END:
                                                                                                                                            .EXTRN
                                                                                                                                                         SYS$QIOW
                                                                                                       O3FC 00000 READ_HOMEBLOCK:
                                                                                                                                                         Save R2,R3,R4,R5,R6,R7,R8,R9
SYS$QIOW, R9
ACC VALUE, R8
CHECKSUM2, R7
BUFFER, R6
-100(SP), SP
#32, DESC
FIB, DESC+4
                                                                                                                                            WORD
                                                                                                                                                                                                                                                1127
                                                                                                                00002
00009
00010
00017
0001E
00022
00026
00028
                                                                              9E
9E
9E
9E
9E
9E
9E
9E
                                                                                                                                           MOVAB
                                                                         59
57
56
56
56
66
                                                                                                   0F0FE0EA00EF666FEEEA77A7A7A3C7E
                                                                                                                                           MOVAB
                                                                                                                                            MOVAB
                                                                                                                                            MOVAB
                                                                                           9C
                                                                                                                                            MOVAB
                                                                                                                                                                                                                                                1157
1158
1160
                                                                5C
60
                                                                                                                                            WVOM
                                                                                          3C
                                                                                                                                            BAVOM
                                                                                                                                                          #0, (SP), #0, #32, FIB
                     20
                                               00
                                                                                                                                           MOVC5
                                                                                                                                                          #1025, FIB
NAM+36, FIB+4
NAM+40, FIB+8
#589856, ATR
                                                                                                                                                                                                                                                1162
1164
1166
1169
1170
1171
                                                                304400
                                                                                                                00032
00038
0003E
00044
0004C
00051
00056
00059
00069
00062
00067
00068
                                                                                                           MOVZWL
                                                                         AE AE AE AE
                                                                                                                                            MOVL
                                                                                                                                            HOVW
                                                                                                                                            MOVL
                                                                                                                                                          STABLK, ATR+4
                                                                                                                                            MOVAB
                                                                                                                                           CLRL
                                                                                                                                                          -(SP)
                                                                                           30
                                                                                                                                            PUSHAB
                                                                                                                                                          ATR
                                                                                                                                           CLRQ
CLRL
PUSHAB
                                                                                                                                                          -(SP)
                                                                                                           04
9F
7C
9F
0D
0D
0D
                                                                                                                                                          -(SP)
                                                                                          70
                                                                                                                                                          DESC
-(SP)
                                                                                                                                            CLRO
                                                                                                                                                          105B
                                                                                           24
                                                                                                                                            PUSHAB
                                                                                                                                            PUSHL
                                                                                      0204
                                                                                                                                                          CHANNEL
                                                                                                                                            PUSHL
                                                                                                                                                           -(SP)
                                                                                                                                            CLRL
```

SETVOL VO4-000						N 5 16-Sep- 14-Sep-	1984 01:01 1984 12:09	1:55 VAX-11 BLiss-32 V4.0-742 9:22 [CLIUTL.SRC]SETVOLUME.B32;1	Page (10
		69		0C 50	FB 0006 00 0007 E9 0007	Ö	CALLS MOVL BLBC MOVZWL	#12, SYS\$QIOW RO, STATUS STATUS, 1\$ IOSB, STATUS STATUS, 2\$	
		69 53 07 53 00	04	AE	EA COOV	3	BLBC MOVZWL	STATUS, 18 LOSB, STATUS	117
	0000000			53	3C 0007 E8 0007 DD 0007 FB 0007 31 0008	D 18:	BLBS PUSHL CALLS	STATUS, 2\$ STATUS #1, LIB\$SIGNAL	117
t	00000000G	00		01	31 0008	6.	BRW	**	
	02	AE 6E 52 6E	10	AE O2 S2	BO 0008	9 28:	BRW MOVW MOVU MOVL	STABLK+4, FILE_SIZE+2 STABLK+6, FILE_SIZE #2, BLOCK BLOCK, FILE_SIZE	118 118 119
		6E		55	DO 0009	5 38:	CMPL	BLOCK, FILE_SIZE	119
			C	0F3	BO 0008 BO 0008 DO 0009 DO 0009 TC 0009 DD 0000 DD 0000 DD 0000 DD 0000 DD 0000 DD 0000 DD 0000 DD 0000 DD 0000 DD 000	A D 48:	CMPL BLEQ BRW CLRQ CLRL PUSHL MOVZWL	4\$ 7\$ -(SP)	120
				7Ē	D4 0009	F	CLRL	-(SP) -(SP) BLOCK #512, -(SP) R6	
		7E.	0200	8F	3C 000/	3	MOVZWL	#512, -(SP)	
			24	7E AE	7C 000/ 9F 000/	A C	CLRQ PUSHAB	-(SP) 10SB	
			0204	31 Ç6	DD 000A	F	PUSHL	10SB #49 CHANNEL	
		69		7E 0C	PB 000E	15	CALLS	#12, SYSSQIOW	
	4	69 53 BD 53 B6 02		50 53	E9 000E	D	PUSHL CLRQ PUSHAB PUSHL PUSHL CLRL CALLS MOVL BLBC MOVZWL	RO, STATUS STATUS, 18 IOSB, STATUS STATUS, 18 BUFFER+13, #2	: 120
		86 86	04	AE 53	3C 0000 E9 0000 91 0000 12 0000 D5 0000	4	BLBC	IOSB, STATUS STATUS, 1\$	120 121
		02	00	A6 6C A6	12 0000	B	BLBC CMPB BNEQ	BUFFER+13, #2 5\$:
			08	67	D5 0000 13 0000	Ö	BEQL	BUFFER+8 58 BUFFER+14 58	121
			0E 10	98 86	85 0000 13 0000	5	BEOL	5\$ BURESDA1A	121
			12	A6 5D A6 58	13 0000 B5 0000 13 0000 B5 0000 B5 0000 B5 0000 B5 0000	A	BEOL	BUFFER+16 58 BUFFER+18	121
	•		14	58 A6	85 0000 85 0000	ř 1	BEQL	BUFFER+18 5\$ BUFFER+20	121
			16	A6 53 A6	13 000E	6	BEQL	BUFFER+20 58 BUFFER+22 58	121
			18	A6 46 49	13 000E	9	BEQL	BUFFER+24	121
			10	49 46 44	13 000E	Ē	BEQL	5\$ BUFFER+28 5\$	121
			20	A6 3F	15 000F	5	TSTW	BUFFER+32	121
			55	36 3A	15 000F	Å	TSTW	BUFFER+34	122
				3ÿ	DD 000F	F	PUSHL	#58	122
		67		95 50	13 0006 13 0006 14 0006 15 000	3	BEQL TSTW TSTW TSTW TSTW TSTW TSTW TSTW TST	BUFFER+34 5\$ #58 R6 #2. CHECKSUM2 R0, 5\$ #510, -(SP) R6	
		30 7E	OIFE	8F 56	3C 0010	9	MONSAF	7510, -(SP)	122

SETVOL V04-000									8 4 16-Sep- 14-Sep-	-1984 01:01 -1984 12:09	1:55 VAX-11 Bliss-32 V4.0-742 9:22 [CLIUTL.SRC]SETVOLUME.B32;1	Page 45 (10)
	68	45 0200	68 A6 C6	04 E0	67 23 8C A6 08 68 8F	0201 0E 0200 45 0C 08 02 06	20066160C636F64A4A4A4656C	FE93E9E1811125757575	0011A 0011F 00124 00128 0012E 00130 00137 1 00139 5\$:	CALLS BLBC CLRB MOVZWL BBC CLRB CMPZV BGEQ SUBB3 BRB CMPW BNEQ TSTW BEQL TSTW	#2, CHECKSUM2 R0, 5\$ OD\$1 BUFFER+14, actuster #1, Flags, 6\$ ACC_INC #0, #8, BUFFER+69, ACC_VALUE 6\$ BUFFER+69, ACC_VALUE, ACC_INC 6\$ BUFFER+12, #257 7\$ BUFFER+8 7\$ BUFFER+6 7\$ BUFFER+6 7\$	1225 1226 1227 1230 1231 1232 1234 1237 1238 1239 1240
					67 32 7E 67	OIFE	33620 5620 585020 5050	13 00 00 FB 50 00 FB	0 00154 0 00156 3 00158 0 0015B 0 0015E 0 00163	BEQL PUSHL PUSHL CALLS BLBC MOVZWL PUSHL CALLS	#58 R6 #2, CHECKSUM2 R0, 7\$ #510, -(SP)	1242
			13	0201 04 E0	67 25 C6 BC A6	0200	01 01 06 00 07 A6	90 00 E1	0016B 00170 00174 00179	PUSHL CALLS BLBC MOVB MOVL BBC CLRB CMPZV	#2. CHECKSUM2 R0, 7\$ #1, ODS1 #1. acluster #1. Flags, 6\$ Acc_Inc	1246 1247 1248 1251 1252
	68	0200 2E	A6 C6		08 68 50	2E	00 07 A6 01	18 83 00	0 0017D 3 00183 3 00185 0 0018C 6\$:	SUBB3 MOVL	#0, #8, BUFFER+46, ACC_VALUE 6\$ BUFFER+46, ACC_VALUE, ACC_INC #1, R0	1252 1253 1255
	FEF8		52		01	00000064	8F 50	04 F 1 D 4	00190 75: 0019A 85:	RET ACBL CLRL RET	#100, #1, BLOCK, 3\$	1191 1265

; Routine Size: 413 bytes, Routine Base: \$CODE\$ + 08DB

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```

RETURN .result:

END:

```
VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETVOLUME.B32;1
ROUTINE parse_class (desc) =
BEGIN
   This routine parses one class of user (e.g. SYSTEM, OWNER, GROUP, WORLD) to see what protection is allowed. The value returned in the low 4 bits is the protection code, with the bits set to reflect that access is
    requested. Note that this is exactly the opposite of what the system wants.
    Inputs:
               DESC - a descriptor pointing to the ASCII representation of the
                            protection desired
MAP desc : REF $BBLOCK:
LOCAL
       result,
       string : REF VECTOR[,BYTE];
                                                                        ! String pointer
   Initially set the value to all zeros, no access
result = 0:
    Scan for the occurrence of each keyletter, and, if it is there, set the
    appropriate bit.
string = .desc[dsc$a_pointer];
INCR index FROM 0 to (.desc[dsc$w_length] -1) DO
        BEGIN
       BEGIN
If .string[.index] EQL'R'
THEN result = .result OR %X'1'
ELSE If .string[.index] EQL 'U'
THEN result = .result OR %X'2'
ELSE If .string[.index] EQL 'E'
OR .string[.index] EQL 'P'
THEN result = .result OR %X'4'
ELSE If .string[.index] EQL 'D'
OR .string[.index] EQL 'L'
THEN result = .result OR %X'8'
ELSE SIGNAL_STOP(clis_ivprot);
END:
        END:
```

SETVOL VO4-000			16-Sep-1984 01:01:55 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:09:22 [CLIUTL.SRC]SETVOLUME.B32;1	Page 47 (11)
		50 04 52 04	54 D4 00002 CLRL RESULT AC D0 00004 MOVL DESC, RO A0 D0 00008 MOVL 4(RO), STRING 60 3C 0000C MOVZWL (RO), RS 01 CE 0000F MNEGL #1, INDEX 49 11 00012 BRB 8\$ 342 9A 00014 1\$: MOVZBL (INDEX)[STRING], RO 50 91 00018 CMPB RO, #82 05 12 0001C BNEQ 2\$ 01 88 0001E BISB2 #1, RESULT	1292 1298
		55 53	54 D4 00002 CLRL RESULT AC D0 00004 MOVL DESC, RO AO D0 00008 MOVL 4(RO), STRING 60 3C 0000C MOVZWL (RO), R5 01 CE 0000F MNEGL #1, INDEX	1299 1301
	52	50 8F	49 11 00012 BRB 8\$ 342 9A 00014 1\$: MOVZBL (INDEX)[STRING], RO 50 91 00018 CMPB RO, #82 05 12 0001C BNEQ 2\$	
		54	50 91 00018	1302
	57	8F	3A 11 00021 BRB 8\$ 50 91 00023 2\$: CMPB R0. #87 05 12 00027 BNEQ 3\$ 02 88 00029 BISB2 #2. RESULT	1303
		54	02 88 00029 BISB2 #2, RESULT 2F 11 0002C BRB 8\$	1304
	45	8F	2F 11 0002C BRB 8\$ 50 91 0002E 3\$: CMPB R0, #69 06 13 00032 BEQL 4\$ 50 91 00034 CMPB R0, #80 05 12 00038 BNEQ 5\$ 04 88 0003A 4\$: BISB2 #4, RESULT	1305
	50	8F	06 13 00032 BEQL 4\$ 50 91 00034 CMPB R0. #80 05 12 00038 BNEQ 5\$	1306
		54	04 88 0003A 48: BISB2 #4, RESULT 1E 11 0003D BRB 8\$ 50 91 0003F 58: CMPB R0, #68	1307
	44	8F	1E 11 0003D BRB 8\$ 50 91 0003F 5\$: CMPB R0, #68 06 13 00043 BEQL 6\$	1308
	40	8F	06 13 00043 BEQL 6\$ 50 91 00045 CMPB R0. #76 05 12 00049 BNEQ 7\$	1309
		54	08 88 00048 6\$: BISB2 #8, RESULT 0D 11 0004E BRB 8\$ 8F DD 00050 7\$: PUSHL #CLI\$_IVPROT	1310
	00000006	000000006	8F DD 00050 7\$: PUSHL #CLI\$ IVPROT	1311
	В3	00 53 50	1E 11 0003D BRB 8\$ 50 91 0003F 5\$: CMPB R0, #68 06 13 00043 BEQL 6\$ 50 91 00045 CMPB R0, #76 05 12 00049 BNEQ 7\$ 08 88 0004B 6\$: BISB2 #8, RESULT 0D 11 0004E BRB 8\$ 8F DD 00050 7\$: PUSHL #CLI\$ IVPROT 01 FB 00056 CALLS #1, LIB\$STOP 55 F2 0005D 8\$: AOBLSS R5, INDEX, 1\$ 54 DO 00061 MOVL RESULT, R0	· 1299 1314 1315

; Routine Size: 101 bytes, Routine Base: \$CODE\$ + 0A78

```
ROUTINE set_home (vbn, desc) =
                                This routine reads a homeblock, modifies it, and writes it back to the
                                volume.
                                Inputs:
                                        vbn - current vbn to read ods1 - 0 => ODS2
=> ODS1
                                         desc - descriptor for the volume
                             BEGIN
                             LOCAL
                                   fosb : VECTOR[4, WORD],
                                                                          ! I/O Status Block for $QIOW
                                                                         ! General Status return
                                   status:
                                Read the homeblock.
                              status = $QIOW (CHAN = .channel,
                                                   FUNC = 10$ READVBLK,
1058 = 1056,
                                                                                    ! Read virtual block
                                                   P1
P2
P3
                                                                                    ! Place it in 'buffer'
! Read 512 bytes
! Starting at this virutal block
                                                         = buffer,
= 512,
                                                          = .vbn);
                             IF .status THE!
IF NOT .status
THEN
                                  .status THEN status = .iosb[0];
                                   BEGIN
                                   SIGNAL (set$_hbread,
                                                                         ! Error reading homeblock
                                             1,
.desc,
                                                                           for this volume
                                                                         for this reason
                                   RETURN false;
                                   END:
                                Change the ACCESSED (LRU) value, if requested
                    358
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                             if .flags[qual_access]
THEN
                                   IF .ods1 THEN buffer[hm1$b_tru_lim] = .acc_value
ELSE buffer[hm2$b_tru_lim] = .acc_value;
                                                                                                          ! For ODS1 ! for ODS2
                                If the DATA_CHECK qualifier is set, check to see if ODS1 or ODS2. If ODS1, tell the user that DATA_CHECK is illegal. Otherwise, set the bits.
                              if .flags[qual_data]
fHEN If .ods1
THEN SIGNAL(set$_notods2,
                                                                                               ! If ODS1,
                                                                                               tell user no
                                              SDESCRIPTOR('DATA_CHECK'))
```

```
138567899123456789901234567899123456789912345678
13867899123456789901234567899123456789912345678
                                                    BEGIN
                                                         .dflags[data_read] THEN buffer[hm2$v_readcheck] = 1;
.dflags[data_noread] THEN buffer[hm2$v_readcheck] = 0;
.dflags[data_write] THEN buffer[hm2$v_writcheck] = 1;
.dflags[data_nowrite] THEN buffer[hm2$v_writcheck] = 0;
                                                [NO]ERASE_ON_DELETE only works for ODS2.
                                           if .flags[qual_erase]
THEN IF .ods1
THEN SIGNAL(set$_notods2, 1, %ASCID 'ERASE_ON_DELETE')
ELSE buffer[hm2$v_erase] = .flags[qual_erase_val];
                            for the EXTENSION qualifier, if ODS1, the field is only a byte long, so the greatest value is 255. If the user specified a larger value, tell the user and return. Otherwise, make the change.
                                            if .flags[qual_exte]
THEN IF .ods1
                                            THEN
                                                    BEGIN
                                                                                                                                                           ! Start of ODS1
                                                    IF .exte_value GTR 255
                                                    THEN
                                                            BEGIN
                                                            SIGNAL(set$_valerr);
                                                            RETURN false:
                                                            END
                                                    ELSE buffer[hm1$b_extend] = .exte_value;
                                                                                                                                                           ! End of ODS1
! Change ODS2 extend
                                           ELSE buffer[hm2$w_extend] = .exte_value;
                                                For FILE PROTECTION, the location is different, depending on which type of disk we have.
                                               Also, a word about the value in FPROT_VALUE. The high word, FPROT_VALUE<16,16>, contains a mask indicating which groups are to be changed (SYSTEM,OWNER,GROUP,WORLD), while the low word, FPROT_VALUE<0,16>, contains the complement of the new protection for each group. Thus, if FPROT_VALUE<16,16> is zero, then nothing is to be changed and there's no need to go thru the Boolean algebra.
                            1416
1417
                                            IF .flags[qual_fprot] AND (.fprot_value<16,16> NEQ 0)
THEN
                                                     if .ods1
```

1440

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```

[NO]HIGHWATER only works for ODS2. if .flags[qual_fhw]
THEN IF .ods1
THEN \$IGNAL(set\$_notods2, 1, %ASCID 'HIGHWATER_MARKING')
ELSE buffer[hm2\$v_nohighwater] = .flags[qual_fhw_val]; In the case of LABEL, the label is stored in the same place on both ODS1 and ODS2 disks. However, there is an additional field in ODS1 homeblocks, which contain the volume label, padded with zeroes instead of blanks. if .flags[qual_label]
THEN IF NOT .flags[qual_lbl_cpy] ! If old label not copied THEN BEGIN CH\$MOVE(vcb\$s_volname, buffer[hm1\$t_volname2], label_buff); flags[qual_lbl_cpy] = 1; ! then do so now. CH\$COPY(.label_value[0], label_value[1], ! Copy label into VOLNAME2. ! padding with spaces. vcb\$s_volname, buffer[hm1\$t_volname2]); If .ods1 THEN CH\$COPY(.label_value[0], label_value[1], ! For ODS1, also copy to VOLNAME, ! padding with zeroes vcb\$s_volname, buffer[hm1\$t_volname]); END: for OWNER UIC, the ODS2 homeblock allows a full 16 bits for group, and another 16 bits for member. In the case of ODS1 disks, each of these fields is only 8 bits long. Also, if fold long UIC's into <377,377> for ODS1 disks. If .flags[qual_owner]
THEN BEGIN IF .ods1 THEN IF .uic_value<8,8> NEQ 0 OR .uic_value<24,8> NEQ 0 THEN BEGIN uic_value<0.8> = -1; uic_value<8.8> = 0; uic_value<16.8> = -1; uic_value<24.8> = 0; END; buffer[hm18w_volowner] = (.uic_value<16.8> *8) + .uic_value<0.8>;

! padded with spaces

.PSECT SCODES, NOWRT, 2

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							OF	FC		SET_HOM				
					5B 5A	00000000° 000000000° 000000000°			00002 00009		. WORD	P.AD UIC LIBS	R2,R3,R4,R5,R6,R7,R8,R9,R10,R11 O, R11 VÅLUE, R10 SIGNAL, R9 OT_VALUE, R8 OS_R7 SP	1316
					58 57 5E	00000000	EF OB 7E 7E	9E 9E	00010 00017 0001E 00025 00028		MOVAB MOVAB SUBL 2	FPRO FLAG	ST R7	1344
					7E	0200	7E AC 8F	04 00 30	0002A 0002C 0002F		MOVAB MOVAB MOVAB SUBLZ CLRQ CLRL PUSHL MOVZWL PUSHAB CLRQ PUSHAB	-(SP VBN #512) }_=(SP)	, , , , ,
						20	31	7C 9F DD	00034 00037 00039 0003C		CLRQ PUSHAB PUSHL	-(SP 10SB	-(SP)	0 0 0 0
			00	0000000G	00 56	0224		DD D4 FB D0	0003E 00042 00044 0004B		CLRL CALLS MOVL	#12	SVS\$010H	
					06 56 10		56 6E 56	50 50 E8	0004E 00051 00054	18.	BLBC MOVZWL BLBS	STAT	STATUS TUS, 1\$ D, STATUS TUS, 2\$ TUS	1345 1346
						08 000000006		DD DD DD DD 31	00059 0005C	18:	PUSHL PUSHL CLRL CALLS MOVL BLBC MOVZWL BLBS PUSHL PUSHL PUSHL PUSHL	#1	S_HBREAD	1346 1352 1351 1349
			11	4E	67 07 A7	0221 FC	01	31 E1 E9	00064 00067 0006B 00070 00075	28:	BBC BLBC MOVB	ODS1	FLAGS, 48 .38 VALUE, BUFFER+46	1359 1361
			38	65	A7 67 0F	FC 0221	02 C7	90 E1 E9	00075 00077 0007C 00080	35: 45:	BRB		VALUE, BUFFER+69 FLAGS, 9\$	1362 1368 1369 1372 1370
					69	000000006	5B 01 8F 03	DD DD FB	0007c 00080 00085 00087 00089 00086 00092 00094		BBC BLBC PUSHL PUSHL PUSHL CALLS BRB BBC BISB2	#SET	S NOTODS2 LIBSSIGNAL	1370
			04	04	A7		01	EI	00094	5\$:	BBC	41.	DFLAGS, 6\$	1375
			04	04 4A 04 4A 04 4A 01	ÂŽ		03	E1	00090	68:	BBC BICB2 BBC	#3.	DFLAGS, 7\$	1376
			04	04	ÃŽ		95	EÎ	000046	75:	RICEZ	#2.	DFLAGS, 8\$	1377
			04	04	Ã7		04	E 1	000AF	8\$:	880	#2.	DFLAGS, 9\$	1378
			21	õî	A7 A7 A7 A7 A7 A7 A7 A7	0221 18	02 04 02 04 07 AB	E 1 E 9	00090 000A2 000A6 000AF 000B4 000B8 000B8 000C2 000C7 000CD 000D0 000D2 000D2	98:	BBC BICB2 BBC BLBC PUSHAB PUSHL PUSHL CALLS	ODS1 P.AD	FLAGS+1, 113	1384 1385 1386
					69	0000000G	AB 01 8F 05 05	E9 9F DD FB	000C5 000CD 000CD		PUSHL PUSHL CALLS BRB	#SET	S NOTODS2 LTBSSIGNAL	
4A A	7	01	A7 01		01		05 50	ĖĖ	00002	108:	BRB EXTZV INSV	#5. RO.	#1. FLAGS+1, RO #2, #1, BUFFER+42	1387

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			28	000000FF	67 52 18 8F	00000000G 0221	03 E	1 000DE 00 000E2 9 000E9 01 000EE	115:	BBC MOVL BLBC CMPL BLEQ PUSHL CALLS	#3 EXTE ODS1	FLAGS 148 - VALUE R2 - 138 #255	1394 1398 1398
						007711EA	0C 1 8F D 01 F	5 000F5 D 000F7 FB 000FD		BLEQ PUSHL CALLS	#/8U	3370 LIB\$SIGNAL	1401
				40	A7	0	\$2 3	00100 00103 11 00107	128:	BRW MOVB BRB	358 R2	BUFFER+45	1402 1404 1395 1406
			40	66	A7 67	02	04 1 52 B 04 E A8 B	0 00109 1 00100	138: 148:	MOVW BBC	R2. #4 FPRO	BUFFER+70 FLAGS, 16\$ DT_VALUE+2	1406
					1C 51 50	0221	38 1 C7 E A7 3 A8 5	3 00114 9 00116 5C 00118 5C 0011F A 00123		BEGL BLBC MOVZWL MOVZWL BICL2 MOVZWL MOVZWL BICL2 BISW3	ODS1 BUFF FPRO	BUFFER+70 FLAGS, 16\$ OT_VALUE+2 15\$ ER+36, R1 OT_VALUE+2, R0 RT OT_VALUE+2, R0 OT_VALUE, R2 RO RO, BUFFER+36	1421
					50 50 50 50 50 50	02	50 C A8 3 68 3 52 C	SC 00126		MOVZWL MOVZWL BICL2	FPRO FPRO R2	RT DT_VALUE+2, RO DT_VALUE, R2 RO	1424
		44	A7		51	56 02	51 A 1A 17 3	00120 00130 11 00135 00137 00138	15\$:	BISW3 BRB MOVZWL	R1 16\$ BUFF	RO, BUFFER+36 ER+54, R1 T VALUE+2, RO	1423
					50 51 50 50 50 A7	02	A8 3 50 0 A8 3 68 3 51 A	CA 0013F		BRB MOVZWL MOVZWL BICL2 MOVZWL MOVZWL BICL2 BISW3	RO, FPRO	RT DT_VALUE+2, RO DT_VALUE, R2	1427
		56	A7 21	01	50 A7 10	0221	06 E C7 E AB 9	00146 00149 00140 1 00151 9 00156 0 0015B	16\$:	BISWS BBC BLBC PUSHAB	R1. #6. OD\$1 P.AD	ER+54, R1 DT_VALUE+2, R0 RT DT_VALUE+2, R0 DT_VALUE, R2 R0 R0, BUFFER+54 FLAGS+1, 18\$	1433 1433 1434
					69	000000006	Q1 D	D 0015E D 00160 B 00166		PUSHL	#SET	S NOTODS2 LIBSSIGNAL	
4A	50 A7	01	A7 01		01 03			F 0016B	175:	PUSHL CALLS BRB EXTZV INSV	#7. RO.	#1. FLAGS+1, RO #3, #1. BUFFER+42	1435
	00	14	A7 01 29 00 A7	02 01f8 02 08	01 03 67 A7 C7 A7 B8	40	50 F 05 E 06 E 0C 2 8F 8 A8 2	EF 0016B F0 00171 E1 00177 E0 0017B 28 00180 88 00187 20 00193	185:	BBC BBS MOVC3 BISB2 MOVC5	#5. #12. #64.	#1, FLAGS+1, RO #3, #1, BUFFER+42 FLAGS, 20\$ FLAGS+2, 19\$ BUFFER+472, LABEL_BUFF FLAGS+2 L VALUE, BLABEL_VALUE+4, #32, #12, - ER+472 20\$ L VALUE, BLABEL_VALUE+4, #0, #12, - ER+14 is	1442 1445 1445 1451
	00		20			40 04 01F8 0221 04 2E	Ĉ7 C7 E	00193	198:		BUFF ODS1	ER+472 . 20\$	1458 1463
	OC		00	08	09 88	04 2E	A7	9 00196 20 00198 001A2	20\$:	BLBC MOVC5	BUFF	L VALUE, BLABEL_VALUE+4, #0, #12, -	1463
					23	0221	67 9 20 1 67 6	001A4 18 001A6 59 001AB 05 001AD 12 001B0 95 001B2 13 001B5 00 001B7 94 001BE	200.	TSTB BGEQ BLBC TSTB	24\$ 0051 UIC	238 VALUE+1	1474 1477
						03	05 1 05 1 07 1	2 001B0 5 001B2		BLBC TSTB BNEQ TSTB	VIC_	VALUE+3	1478
					6A	00FF00FF 02	8F 0	00 00187 PA 0018E	215:	BEQL MOVZBL	#167 UIC	11935, UIC VALUE VALUE+2, RO	1481 1486

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		30	50		50 51 50		08 6A	78 0010 9A 0010	2	ASHL MOVZBL ADDW3	#8 t	RO, RO VALUE, R1 RO, BUFFER+30	•
		3E	A7	40			04 6A	11 0010 00 0010	É 238:	BRB MOVL	24\$ UIC	VALUE, BUFFER+44	1474
					A7 21 10	0221	04 6A A7 C7	DO 001D E9 001D E9 001D	8	MOVL BLBC BLBC PUSHAB PUSHL PUSHL CALLS BRB MOVC3	FLAC	VALUE, BUFFER+44 5S+1, 26\$ 1, 25\$	1474 1488 1497 1500 1503
					(00000000	AB 01 8F 03	9f 0010 DD 001E DD 001E	0	PUSHL PUSHL	#1	S NOTODS2	1501
		76	47	10	69		03 00	FB 001E	2 8 B D 258:	CALLS BRB	26\$	S NOTODSZ LIBSSIGNAL	1504
		68 70	A7 A7 42	10 18 01	A8 A7	0E	88 88 88	28 001F	9 268:	MOVES MOVES BBC TSTW	#8. #2. VPR(RETMIN_VALUE, BUFFER+72 RETMAX_VALUE, BUFFER+80 FLAGS+T, 288 OT_VALUE+2 278 EER+32, R1 OT_VALUE+2, R0 RT OT_VALUE+2, R0 RT OT_VALUE, R2 R0, BUFFER+32 EER+52, R1 OT_VALUE+2, R0 RT OT_VALUE, R2 R0 R0, BUFFER+52 FLAGS+1, 308 298 OOM_VALUE, BUFFER+68 FLAGS+1, 318 EVALUE, BUFFER+68 EVA	1506 1507 1516
					1D 51 50 50 50 50 50	0221 40 0E	A8 C7 A7 A8 50	\$C 0020 3C 0020 3C 0020	8	BBC TSTW BEQL BLBC MOVZWL MOVZWL BICL2 MOVZWL MOVZWL BICL2 BISW3	ODS1 BUF! VPR(1, 27\$ FÉR+32, R1 DT_VALUE+2, RO RT	1518 1520
					50	OE OC	A8 A8 52	3C 0021	ž	MOVZWL MOVZWL	VPR(T_VALUE+2, RO	1521
		40	A7		50		51 18	A9 0021	Ē	BISW3 BRB	R1 28\$	RO, BUFFER+32	1520
					51 50	54 0E	A7 A8	3C 0022	5 27 \$:	MOVZWL	BUF I	FER+52, R1 DT_VALUE+2, R0	1520
					50 52	0E 0C	A8 A8 A8 52	3C 0023	0	BRB MOVZWL MOVZWL BICL2 MOVZWL MOVZWL BICL2 BISW3	VPR(T_VALUE+2, RO	1524
		54	A7	01	51 50 51 50 50 50 87		52 51 03	CA 0023 A9 0023 E1 0024	4 8 8 0 28\$:	BICL2 BISW3 BBC	R2,	RO BUFFER+52 FLAGS+1 30\$	1530
			• •	40	07 A7	0221 2 8	C7	E9 0024	Ā	BLBC MOVB BRB MOVB	ODS1	29\$ ON_VALUE, BUFFER+44	1530 1533
			0A	64 01 24	A7 A7 B8	28	A8 05 A8 01	90 0024 90 0024 90 0025 E1 0025 20 0026 9F 0026 FB 0026	1 29\$: 6 30\$:	MOVB BRB	WINE	OU VALUE, BUFFER+68	1534 1540 1545
0	C		0A 20	24	B8	0204	A8 Ç7	SC 0052	8	BBC MOVC5	BUFF	R VALUE, BUSER_VALUE+4, #32, #12, -	
				00000000	00	20	3A A7	DD 0026 9F 0026 FB 0026 3C 0027	5 318:	PUSHL	BUFF	ER	1551
				00000000G	00 7E	01FE 20	8F	3C 0027	î	MOVZWL	#51((SP)	1552
				00000000G	00	60	02 7E	FB 0027 7C 0028	9	CALLS	#2 -(\$F	CHECKSUM2	1562
					7E	0200	AC BF A7	D4 0028 DD 0028 3C 0028 9F 0028	2 7 C	PUSHAB CALLS MOVZWL PUSHAB CALLS CLRQ CLRL PUSHL MOVZWL PUSHAB CLRQ PUSHAB	- (SF VBN #512 BUF	P) ER O) NNEL	
						20	A7 7E AE 30	9F 0029	1	PUSHAB	1058		
						0224	27 7E	9F 0028 7C 0028 9F 0029 DD 0029 DD 0029 D4 0029	6	PUSHL	CHAR	INEL	•

SETVOL V04-000			M 4 16-Sep-1984 01:01:55 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:09:22 [CLIUTL.SRC]SETVOLUME.B32;1	Page 56 (12)
	0000000G	00 56 06 56 12 08 000000006 69 50	OC FB 0029C	1563 1564 1570 1569 1567 1573

; houtine Size: 712 bytes, Routine Base: \$CODE\$ + OADD

```
ROUTINE set_ucbvcb (ucb) : NOVALUE =
                                            This routine is called in kernel mode, to modify the fields in the UCB and VCB which correspond to changes made in the homeblock. The address of the UCB is passed as the input argument.
                                         BEGIN
                                         MAP ucb : REF $BBLOCK;
                                                                                                                                  ! Define the UCB
                                                orb = .ucb[ucb$l_orb] : $BBLOCK,
vcb = .ucb[ucb$l_vcb] : $BBLOCK,
devchar = ucb[ucb$l_devchar] : $BBLOCK;
                                                                                                                                     Define the VCB
                                                                                                                                    and devchar longword
                                             Go thru the UCB and VCB, making the same changes to it that were made to the homeblock. Note that, if the LABEL qualifier is set, the volume label is changed in the homeblock and in the VCB, but the logical name (DISK$label) is NOT CHANGED.
                                         IF .flags[qual_access] AND (.acc_inc NEQ 0)
THEN vcb[vcb$b_lru_lim] = .vcb[vcb$b_lru_lim] + .acc_inc;
                           1601
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1631
                                          IF (.flags[qual_data] AND (.buffer[hm2$b_struclev] NEQ 1))
                                         THEN
                                                 BEGIN
                                                     .dflags[data_read] THEN devchar[dev$v_rck] = 1;
.dflags[data_noread] THEN devchar[dev$v_rck] = 0;
.dflags[data_write] THEN devchar[dev$v_wck] = 1;
.dflags[data_nowrite] THEN devchar[dev$v_wck] = 0;
                                         If .flags[qual_erase]
AND NOT .ods1
THEN vcb[vcb$v_erase] = .flags[qual_erase_val];
                                         If .flags[qual_exte]
THEN vcb[vcb$w_extend] = .exte_value;
                                         If .flags[qual_fhw]
AND NOT .ods1
THEN vcb[vcb$v_nohighwater] = .flags[qual_fhw_val];
                                         vcb$s_volname,
vcb[vcb$t_volname]);
```

```
8 5
16-Sep-1984 01:01:55
14-Sep-1984 12:09:22
SETVOL
VO4-000
                                                                                                                                                                   VAX-11 Bliss-32 V4.0-742
ECLIUTL.SRCJSETVOLUME.B32:1
                                                                                                                                                                                                                                      Page
1644
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1667
                              1F .flags[qual_mntver]
THEN vcb[vcb$v_mountver] = .flags[qual_mntver_val];
                                             If .flags[qual_owner]
THEN orb[orb$l_owner] = .uic_value;
                                             IF .flags[qual_retent] AND (NOT .ods1)
THEN
                                                    BESIN
                                                    CHSMOVE(8, retmin_value, vcb[vcbsq_retainmin]);
CHSMOVE(8, retmax_value, vcb[vcbsq_retainmax]);
                                                    END:
                                             If .flags[qual_unl]
                                             THEN ucb[ucb$v_unload] = .flags[qual_unl_val];
                                            orb[orb$v_prot_16] = 1;
                                                                                                                                      ! SOGW protection word
                                              If .flags[qual_windows]
                                             THEN vcb[vcb$b_window] = .window_value;
                              1656
1657
1658
    1669
1670
                                            RETURN;
END;
                                                                                                      O7FC 00000 SET_UCBVCB:
                                                                                                                                                        Save R2.R3.R4.R5.R6.R7.R8.R9.R10
FPROT_VALUE, R10
FLAGS, R9
UCB. R?
28(R7), R8
52(R7), R6
#1. FLAGS, 1$
ACC_INC
1$
                                                                                                                                                                                                                                              1575
                                                                                                                                          WORD
                                                                              00000000.
                                                                                                                00002
                                                                                                                                          MOVAB
                                                                         5A
59
57
58
56
69
                                                                                                   EFACTOCOCOA2080808080806005
                                                                                                          9900015330113181A181A18F
                                                                                                                                          MOVAB
                                                                                         04
10
34
                                                                                                                00010
                                                                                                                                                                                                                                              1588
                                                                                                                                          MOVL
                                                                                                                00014
                                                                                                                                          MOVL
                                                                                                                00018
                                                                                                                                                                                                                                              1589
1599
                                                                                                                                          MOVL
                                                                                                               0001C
00020
00024
00026
0002C
00030
00034
00036
00038
00045
00045
00045
00045
00045
00054
48:
00059
00055
00063
00063
                                              00
                                                                                                                0001C
                                                                                                                                          BBC
                                                                                      0220
                                                                                                                                          TSTB
                                                                                                                                          BEOL
                                                                                                                                                        ACC_INC, 73(R6)
#2, FLAGS, 58
BUFFER+13, #1
                                                                         A6
69
01
                                                                                      0220
                                                                                                                                          ADDB2
                                                                                                                                                                                                                                              1600
1602
                                               2E
                                                                                                                                          BBC
                                                                                          20
                                                                                                                                          CMPB
                                                                                                                                          BEQL
                                                                                                                                                        5$
#1. DFLAGS. 2$
#64. 59(R7)
#3. DFLAGS. 3$
#64. 59(R7)
#2. DFLAGS. 4$
#128. 59(R7)
#4. DFLAGS. 5$
#128. 59(R7)
#4. FLAGS+1, 6$
OD$1. 6$
#5. #1. FLAGS+1, RO
                                                                         A9
A7
A9
A7
A9
OC
                                                                                                                                                                                                                                              1605
                                               05
                                                                                                                                          BBC
                                                                04
38
04
38
04
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04
38
                                                                                          40
                                                                                                                                          BISB2
                                                                                                                                          BBC
                                                                                                                                                                                                                                              1606
                                               05
                                                                                                                                          BICB2
                                                                                         40
                                               05
                                                                                                                                          BBC
                                                                                                                                                                                                                                              1607
                                                                                                                                         BISB2
BBC
BICB2
BBC
                                                                                         80
                                                                                                                                                                                                                                              1608
                                               05
                                                                                          80
```

BLBS

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01

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0221

1611 1612 1613

SETVOL V04-000							1	5 6-Sep- 4-Sep-	1984 01:01 1984 12:09	:55 VAX-11 Bliss-32 V4.0-742 :22 [CLIUTL.SRC]SETVOLUME.B32;1	Page 59
53	A6		01 08 1F	3E	03 69 86 000000006 69	50 03 04 AA	F0 00066 E1 00074 B0 00078 E1 00086 B5 00087 3C 00088	68:	INSV BBC MOVW	RO. #3, #1, 83(R6) #3, FLAGS, 7\$ EXTE VALUE, 62(R6) #4, FLAGS, 8\$ FPROT VALUE+2	1615 1616 1618
					51 4A 50 02 51 02 52 52	A6 AA 50 AA 6A	3C 00086 3C 00086 CA 00094 3C 00098 CA 00098		TSTW BEQL MOVZWL MOVZWL BICLZ MOVZWL MOVZWL BICLZ BISW3	8\$ 74(R6), R1 FPROT_VALUE+2, R0 R0, RT FPROT_VALUE+2, R0 FPROT_VALUE, R2 R2, R0 R1, R0, 74(R6) #6, FLAGS+1, 9\$ OD\$1, 9\$ #7, #1, FLAGS+1, R0 R0, #4, #1, 83(R6) #5, FLAGS, 10\$ LABEL_VALUE, BLABEL_VALUE+4, #32, #12, -20(R6) FLAGS+2, 11\$	1619 1620
		4A	A6	01	50 A9 00 0221	51 06	A9 0009E	AS:	BISUS	R1, R0, 74(R6) #6, FLAGS+1, 9\$	1622
53	50 A6	01	A9 01		01	07 50	E8 000A8 EF 000A0 F0 000B3 E1 000B0		BBC BLBS EXTZV INSV	0DS1, 98 #7, #1, FLAGS+1, RO RO, #4, #1, 83(R6)	1622 1623 1624
	00		20	08	04 69 8A 04	05 AA A6	E1 000B9	98:	BBC MOVC5	#5, FLAGS, 108 LABEL_VALUE, BLABEL_VALUE+4, #32, #12, -	1626 1631
53	50 A6	02	A9 01		8A 04 0C 02 01 02	A9 01 50	00004 E9 00006 F0 00000 95 00006 18 00008	10\$:	EXTZV	FLAGS+2, 11\$ #1, #1, FLAGS+2, R0 R0, #2, #1, 83(R6)	1633 1634
					68 00000000G	69 07	95 00006 18 00008	118:	INSV TSTB BGEQ MOVL	PLAGS	1636
		4.0		40	11 01 0C 0221	00 A9 C9	00 0000/ E9 000E1 E8 000E2 28 000E/ 28 000F	128:	BLBC BLBS MOVC3 MOVC3	FLAGS+1, 13\$ ODS1, 13\$	1637 1639
	50 A7	6C 74 02	A6 0C A9 01 20	10 18 02	AA A9 01	08 02 03	E1 000F6	155:	MOVC3 MOVC3 BBC EXTZV	UIC VALUE, (R8) FLAGS+1, 13\$ ODS1, 13\$ #8, RETMIN_VALUE, 108(R6) #8, RETMAX_VALUE, 116(R6) #2, FLAGS+2, 14\$ #3, #1, FLAGS+2, R0 R0, #4, #1, 101(R7) #2, FLAGS+1, 15\$ VPROT_VALUE+2 15\$	1642 1643 1646 1647
65	A7		20	01	04 A9	50 02 AA 1B	FO 00101 E1 00107 B5 00100	148:	INSV BBC TSTW	RO, #4, #1, 101(R7) #2, FLAGS+1, 15\$ VPROT_VALUE+2	1649
					51 18 50 0E	AB	13 0010F 3C 00111 3C 00115		BEQL MOVZUL MOVZUL	15\$ 24(R8), R1 VPROT_VALUE+2, R0	1650
					50 OE 52 OC	50 AA 52 51	3C 00110 3C 00120		MONSAL MONSAL BICES	VPROT_VALUE+2, RO VPROT_VALUE, R2	1651
		18	A8 05	08 01 48	50 50 A8 A9 A6 28	51 01 03	3C 00115 CA 00119 3C 00110 3C 00124 A9 00127 88 00126 E1 00136 90 00138	158:	BEQL MOVZWL BICL2 MOVZWL MOVZWL BICL2 BISW3 BISB2 BBC	24(R8), R1 VPROT VALUE+2, R0 R0, RT VPROT VALUE+2, R0 VPROT VALUE, R2 R2, R0 R1, R0, 24(R8) #1, 11(R3) #3, FLAGS+1, 16\$ WINDOW_VALUE, 72(R6)	1652 1654
				48	A6 28	AA	90 00135 04 0013A	168:	MOVB RET	WINDOW_VALUE, 72(R6)	1652 1654 1655 1658

Routine Base: \$CODE\$ + ODA5

; Routine Size: 315 bytes.

```
SET VOL
```

```
ROUTINE modify_volset (desc) : NOVALUE = BEGIN
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144
                                                                                                                                         Modify [0,0]VOLSET.SYS on the root volume of the volume set. Only ODS2 initialized volumes can be volume sets so we don't have to worry about the SREAD finding the End-of-File value as zero in this case
                                                                                                                                          Inputs:
                                                                                                                                                                         desc - address of root volume device descriptor
                                                                                                                                          Outputs:
                                                                                                                                                                         None.
                                                                                                                               MAP
                                                                                                                                                    desc : REF VECTOR:
                                                                                                                               LOCAL
                                                                                                                                                     status,
                                                                                                                                                    buffer : VECTOR[vsl$c_length_BYTE], fab : $FAB(DNM = '[0,0]VO[SET.SYS',
                                                                                                                                                   Put the root device name in place
                                                                                                                                fab[fab$l_fna] = .desc[1];
fab[fab$b_fns] = .desc[0];
                                                                                                                                          Open and connect to [0,0]VOLSET.SYS
                                                                                                                               IF (status = $OPEN(FAB = fab))
THEN status = $CONNECT(RAB = rab);
                                                                                                                                IF NOT .status
                                                                                                                                THEN
                                                                                                                                                     BEGIN
                                                                                                                                                     LOCAL
                                                                                                                                                  ptr.
d: VECTOR[2].
b: VECTOR[30]:
ptr = CH$MOVE(.fab[fab$b_fns].
fab[fab$l_fna].
                                                                                                                                                    SIGNAL (set&_writeerr.
                                                                                                                                                                                          d.
```

```
SETVOL
VO4-000
                                                                                                               16-Sep-1984 01:01:55
14-Sep-1984 12:09:22
                                                                                                                                                        VAX-11 Bliss-32 V4.0-742
ECLIUTL.SRCJSETVOLUME.832:1
  .status);
                                                END
                                         ELSE
                                                BEGIN
                                             The first record contains the volume set name. Skip it.
                                                SGET(RAB = rab);
                                             Search thru the records until the one matching the saved old label is found. When found, replace the old label with the new one, and
                                             update the record.
                                                WHILE SGET(RAS = rab) DO
                                                    BEGIN
IF CHSEQL(vcb$s_volname,
label_buff,
vsl$s_name,
buffer,
                                                       THEN
                                                             BEGIN
CHSCOPY(.label_value[0],
.label_value[1],
                                                              vsl$s_name,
buffer);
rab[rab$l_rbf] = buffer;
rab[rab$w_rsz] = vsl$c_length;
$UPDATE(RAB = rab);
                                                              EXITLOOP
END;
                                                       END:
                                                END:
                                          SCLOSE(FAB = fab);
                                         RETURN;
END;
                                                                                                                                 .PSECT
                                                                                                                                             SPLITS, NOURT, NOEXE, 2
                                                                                                        00468
00477
00478
00479
0047A
0047C
00480
00484
00488
                     2E
                                  45
                                         53
                                                                     SD
                                                                            30
                                                                                                                                 .ASCII
                                                                                                                                              \[0,0]VOLSET.SYS\
                           54
                                               40
                                                       4F
                                                              56
                                                                                   50
                                                                                          30
                                                                                                                  P.ADW:
                                                                                                                                BLKB
BYTE
BYTE
                                                                                      03
50
0000
0000000
0000000
0000000
0000
                                                                                                                  P.ADX:
                                                                                                                                LONG
LONG
LONG
LONG
LONG
WORD
```

(14)

	16-Sep-19	84 01:01 84 12:09	:55 VAX-11 Bliss-32 V4.0-742 :22 CCLIUTL.SRCJSETVOLUME.832;1	Page
000000000 00000000 00000000 00000000 0000	0048F 00490 00494 00495 00496 00498 00496 00498 00486 00486 00486 00486 00486 00486 00487 00488 00468 00408 00408 00408 00408 00408 00408 00408 00408 00408 00408 00408 00408 00408 00408 00408 00408 00408 00408 00408 00468 00	BYTE BYTE BYTE BYTE BYTE BYTE BYTE BYTE	000000000000000000000000000000000000000	
		.EXTRN	SYSSCONNECT, SYSSGET SYSSUPDATE, SYSSCLOSE	
		.PSECT	\$CODE\$, NOWRT, 2	
OOFC	00000 MODIFY	VOLSET:		

SETVOL V04-000								1	S-Sep-	1984 01:01: 1984 12:09:	:55	VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRCJSETVOLUME.832;1	Page 63
	FF70 0080	CD	00000000° 00000000° 00A4 FF68	ST SE EF CE	000000006 FEAC 0050 0044	OO CE 8F AD	355 P	00002 00009 0000E 0001A 00026		MORD MOVAB MOVAB MOVAB MOVAB MOVAB MOVL MOVL	-340	R2,R3,R4,R5,R6,R7 GET, R7 (SP), SP P.ADX, FAB P.ADY, RAB ER, RAB+36	1659 1684 1687 1684
				CE CD SO	FF70 04 04	AD CD AC	9Ē	00035		MOVL	BA 1	MA8+0U	1692
			9C A4 000000006	AD AD	FF70	40 60 01 01	90 96 68 00	0003c 00040 00044		PUSHAR	#1.	S, FAB+44 , FAB+52 SYS\$OPEN STATUS	1693 1698
			000000006	56 11 00 56	0080	56 CE 01	69 96 60	0004E 00051 00055 0005C		CALLS MOVL BLBC PUSHAB CALLS	RAB	STATUS US, 18 SYSSCONNECT	1699
		48	00	00 56 50	A4	56 AD 50	6 8 9 A	0005F 00062 00066	18:	BLBS	STAT	US. 28 52. RO	1700 1707
		6E		BD 50 BD	A5	AD 50 56	9A 28	00068 0006F 00074		MOVZBL MOVC3 PUSHL	FAB+ RO.	STATUS US, 28 52, RO aFAB+44, B 53, RO aFAB+48, (PTR) US	1710 1712 1716 1713
			000000006	00	7C 000000006	AE 01 8F	9F DD	00076 00079 00078 00081		MOVL BLBS MOVZBL MOVZBL MOVZBL MOVZBL PUSHL PUSHL PUSHL PUSHL PUSHL CALLS	#1 #SET	S WRITEERR LIBSSIGNAL	1713
			00000000		0080	42 CE	11 9f	00088 0008A	25:	PUSHAB	AS RAB	E10031 GRAE	1700 1725
				67	0080	01 CE 01	F 8	0008E 00091 00095	38:	CALLS PUSHAB CALLS	RAB	SYS\$GET Sys\$get	1732
	co	AD	00000000	67 31 EF		50 00	59 59	00098 00098		BLBC CMPC3	RO.	4\$ LABEL_BUFF, BUFFER	1734
00		20	00000000	FF	000000000	EB	50	000A4		BNEQ MOVC5	LABE	L VALUE, BLABEL VALUE+4, #32, #12	1741
			8A00 SA00	CE	0800	EF AD AD 8F CE 01	9E 9B 9F	000B3 000B5 000BB 000C1		MOVAB MOVZBU PUSHAB	BUFF 864 RAB	ER RAB+40 RAB+34	1746 1747 1748
			000000006	00	FF70	ÇD	FB 9F		48:	PUSHAB	FAB	SYSSUPDATE	1754
			000000006	VU		01	04	00007		RET		SYS\$CLOSE	1757

; Routine Size: 216 bytes, Routine Base: \$CODE\$ + OEEO

000000006 00

0000 00000 6C FA 00002 04 00009 .ENTRY COMMON 10, Save nothing CALLG (AP), SYS\$QIOW RET

1758 1803 1805

(15)

SETVOL VO4-000

1 5 16-Sep-1984 01:01:55 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:09:22 [CLIUTL.SRC]SETVOLUME.832;1

; Routine Size: 10 bytes, Routine Base: \$CODE\$ + OFB8

SEVO	TVOL 04-000				J 5 16-Sep-198 14-Sep-198	4 01:01:55 4 12:09:22	VAX-11 Bliss-32 V4.0-742 [CLIUTL.SRC]SETVOLUME.832;1	
:	1821 1806 1 E	LUDOM						
						.EXTRN LIB	SSIGNAL, LIBSSTOP	
:	Name	PSE Bytes	CT SUMMARY		Attributes			
	SGLOBALS SOWNS SPLITS SCODES	48 984 1292 4034	NOVEC, WRT, NOVEC, WRT, NOVEC, NOWRT, NOVEC, NOWRT,		EXE, NOSHR, EXE, NOSHR, EXE, NOSHR, EXE, NOSHR,	LCL. REL. LCL. REL. LCL. REL. LCL. REL.	CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2)	
		Library St						
:	File			ymbols - oaded	Percent	Pages Mapped	Processing Time	
	_\$255\$DUA28:[SYSLIB]LIE	B.L32:1 MAC.L32:1	18619 42	181	8	1000	00:01.8 00:00.2	
:		co	MMAND QUALIFI	ERS				
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